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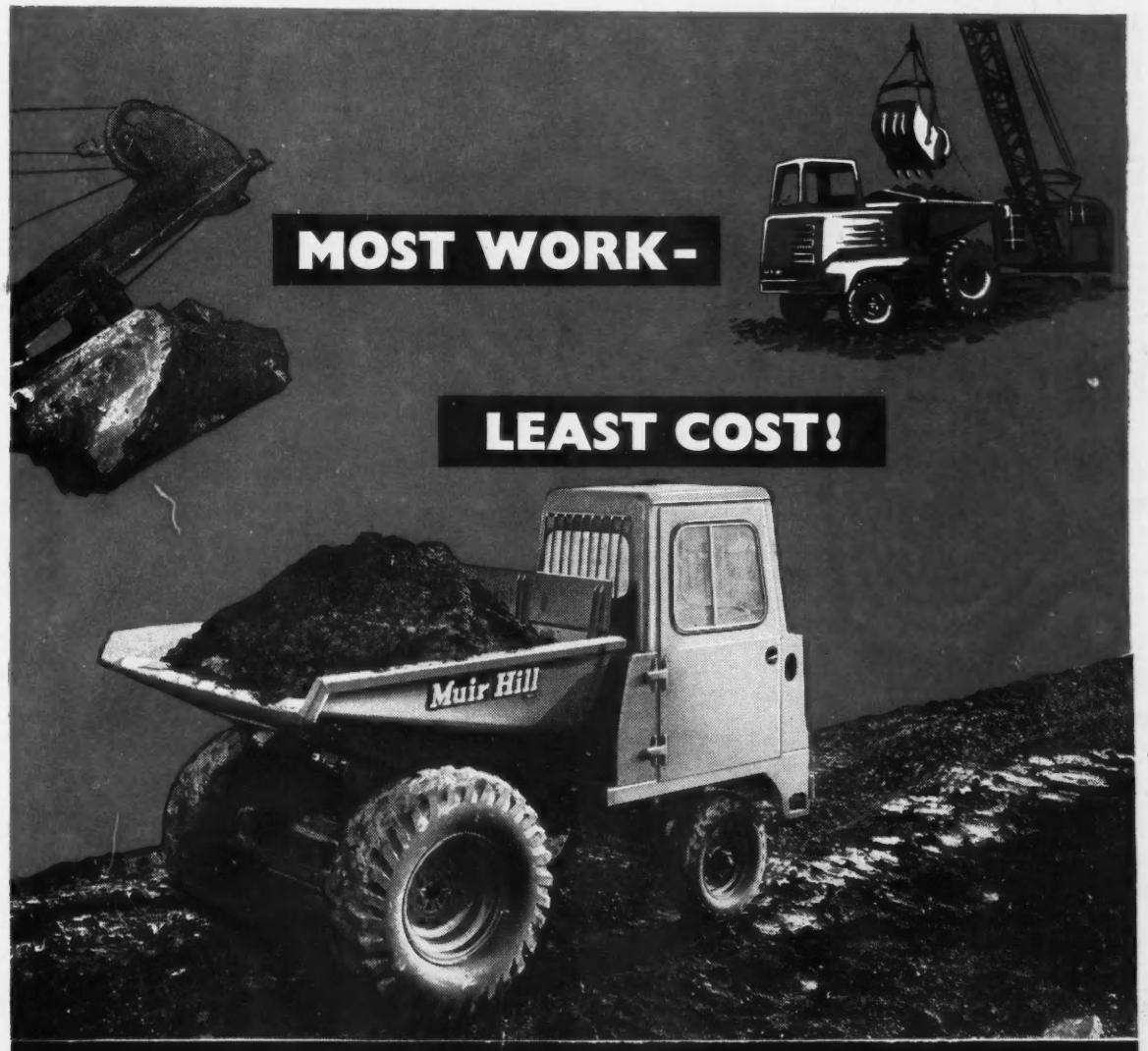

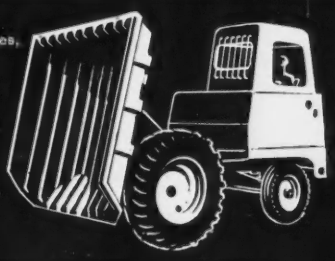

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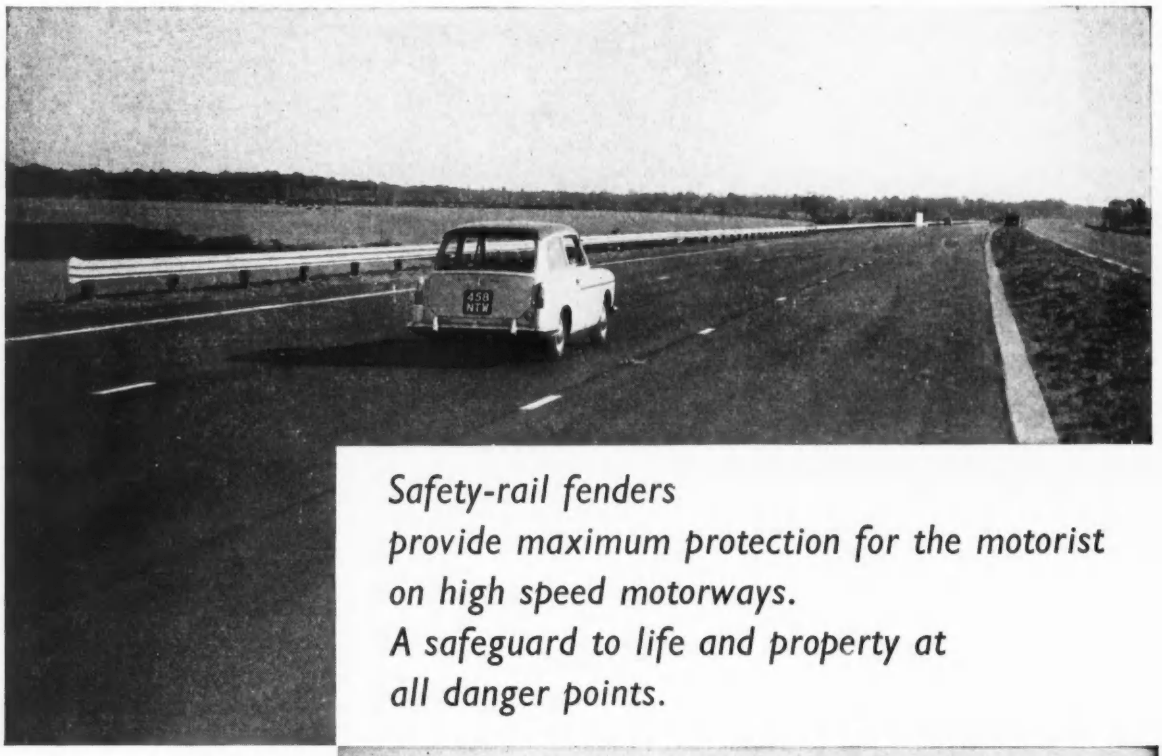

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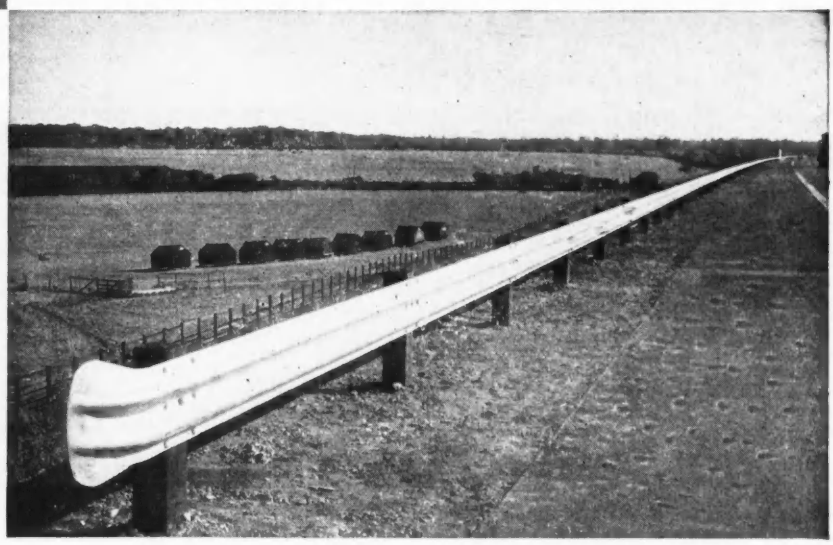

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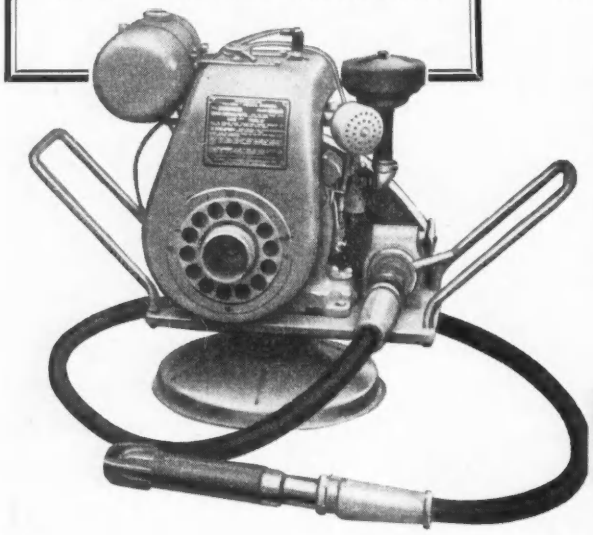

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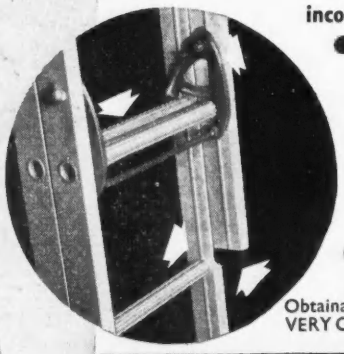

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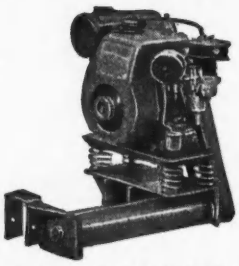

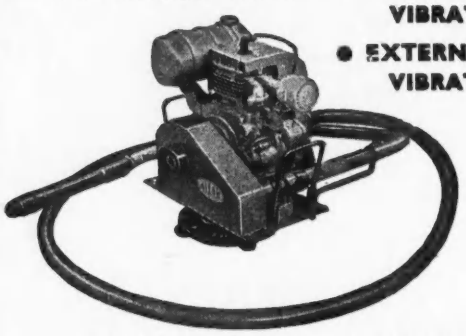

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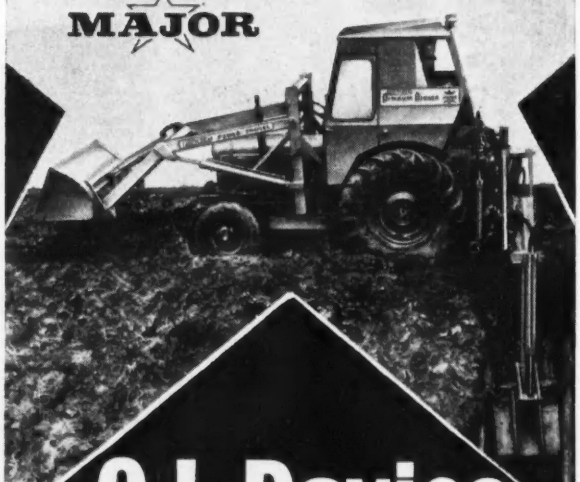

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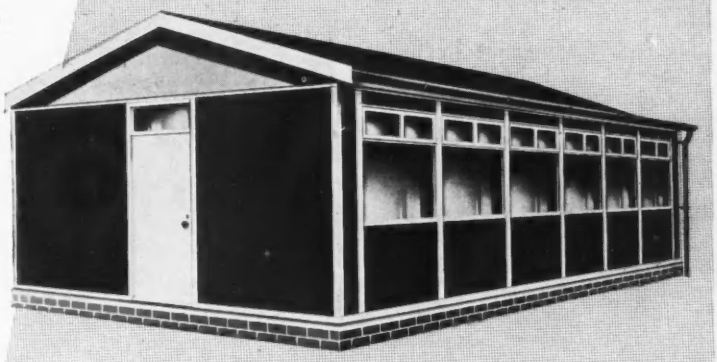

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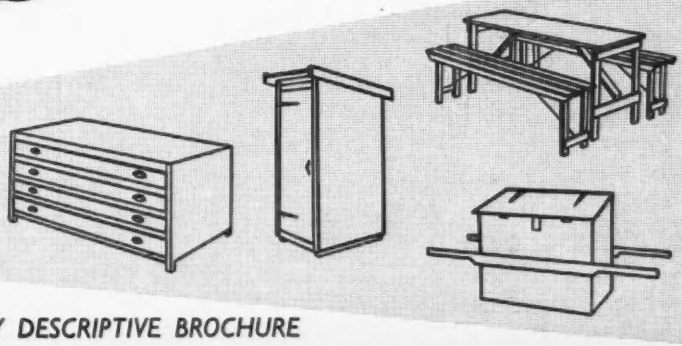

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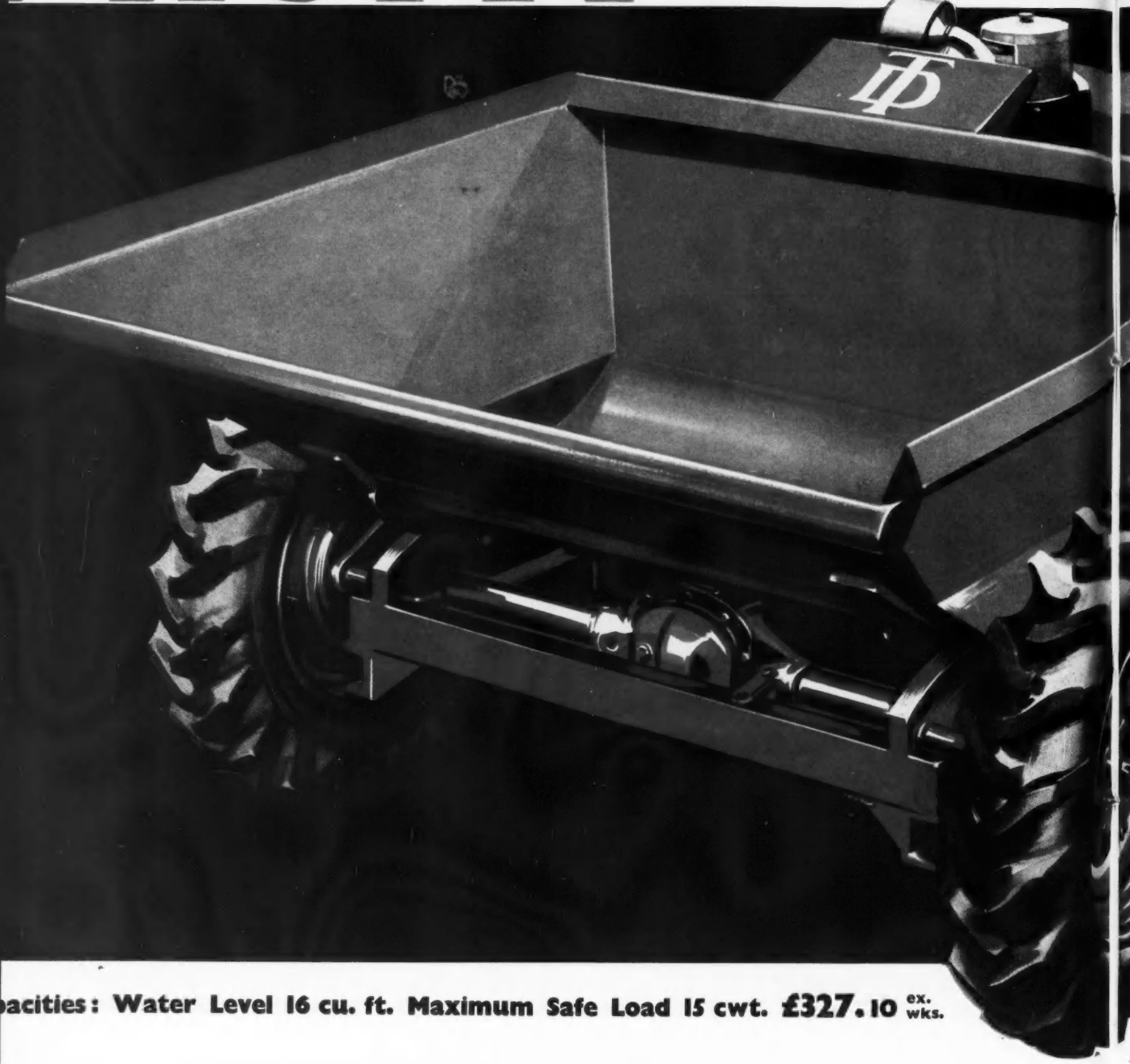

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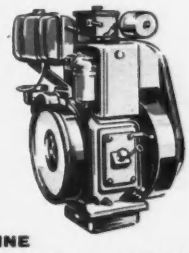

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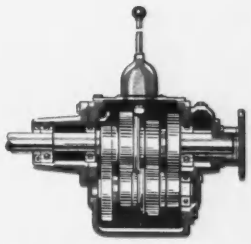

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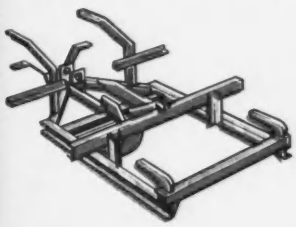

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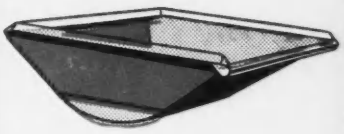

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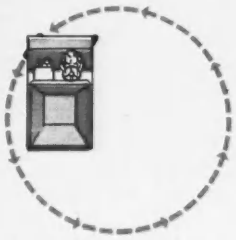

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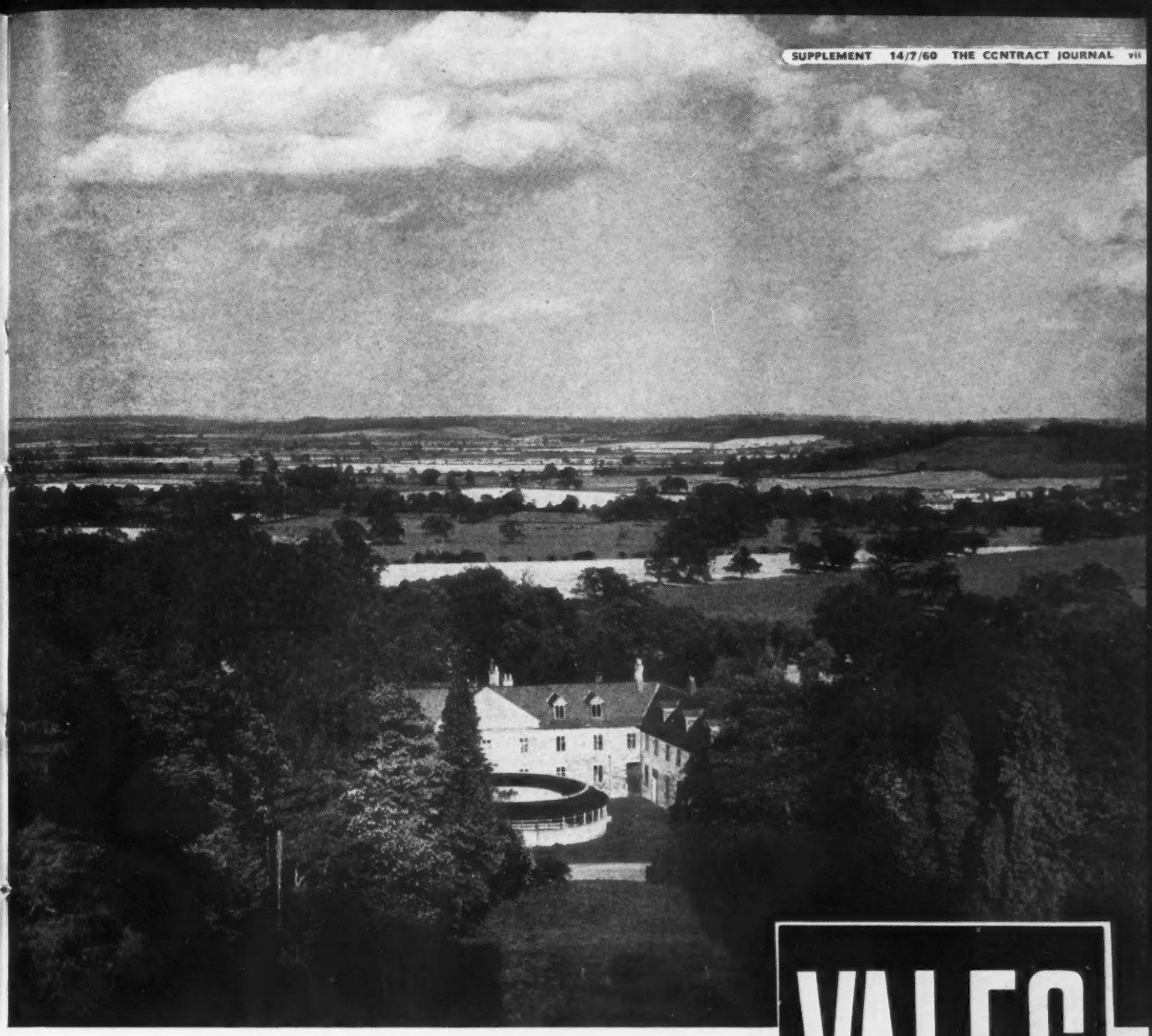
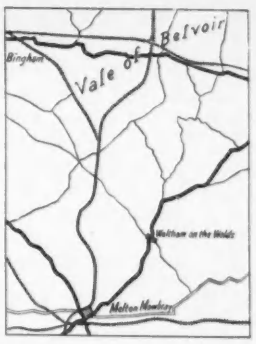


Vales of England

The Vale of Belvoir, Leics.



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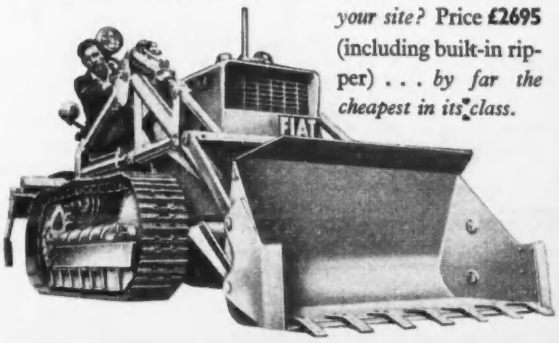

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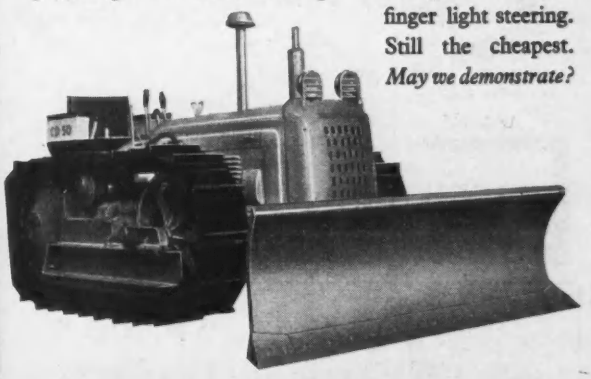

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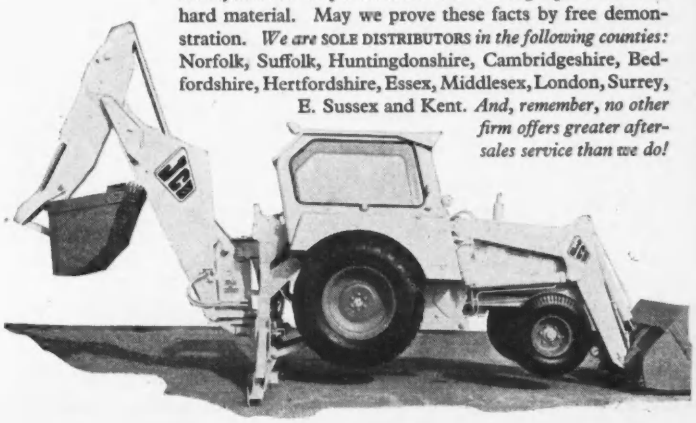

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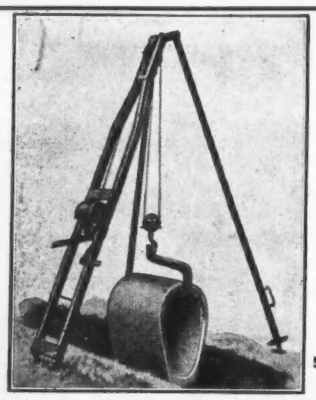

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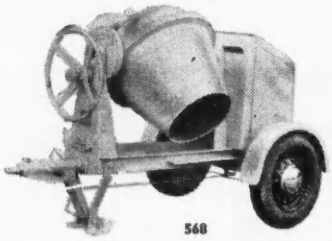

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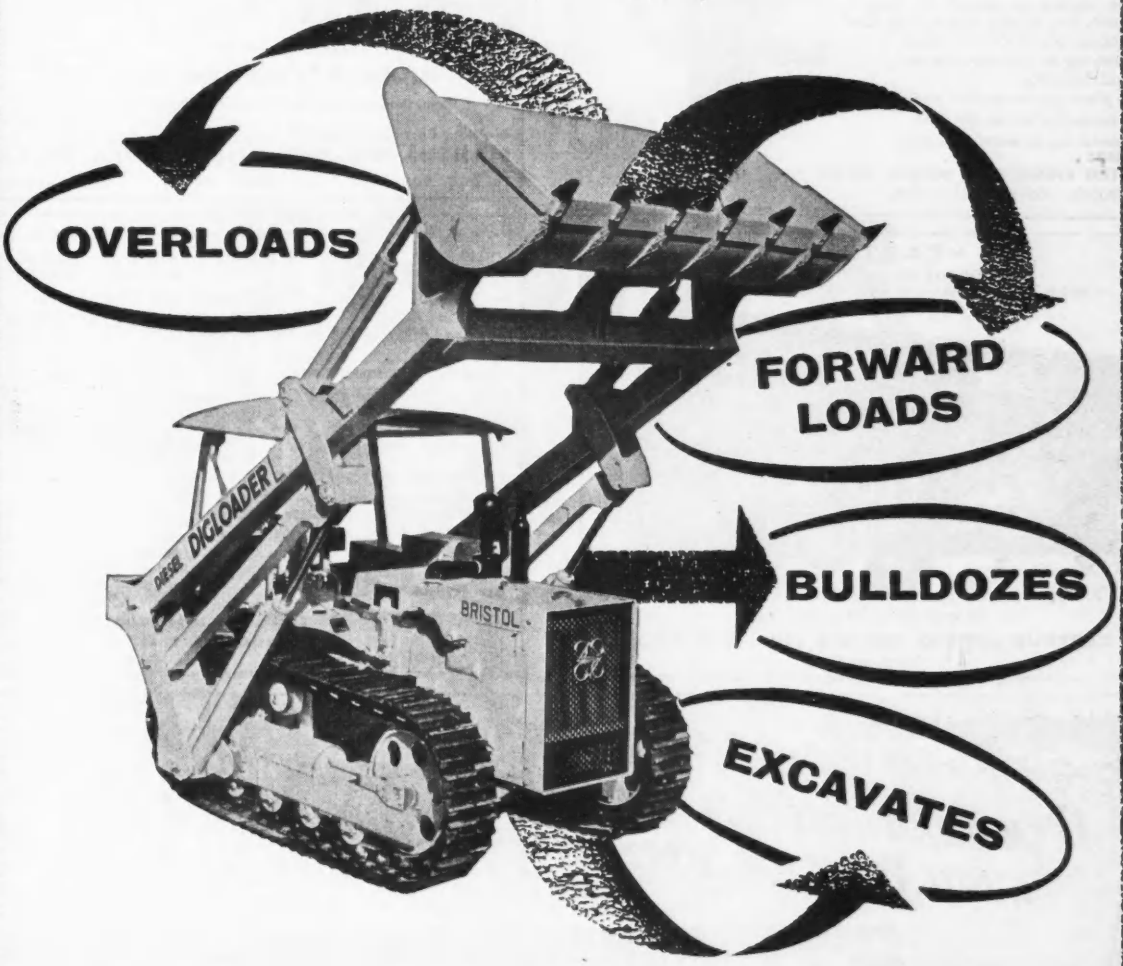

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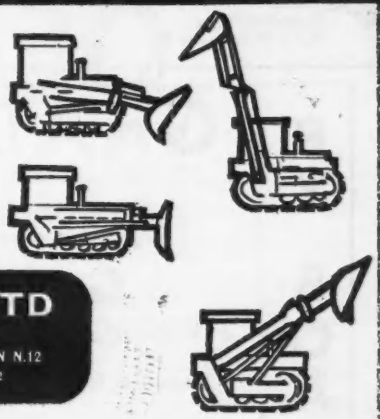

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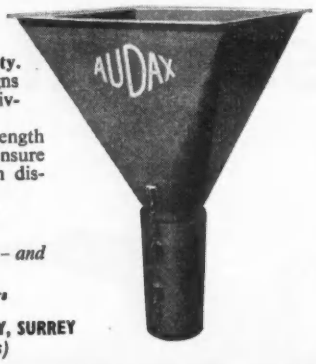

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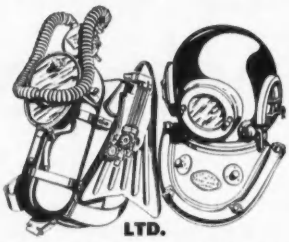

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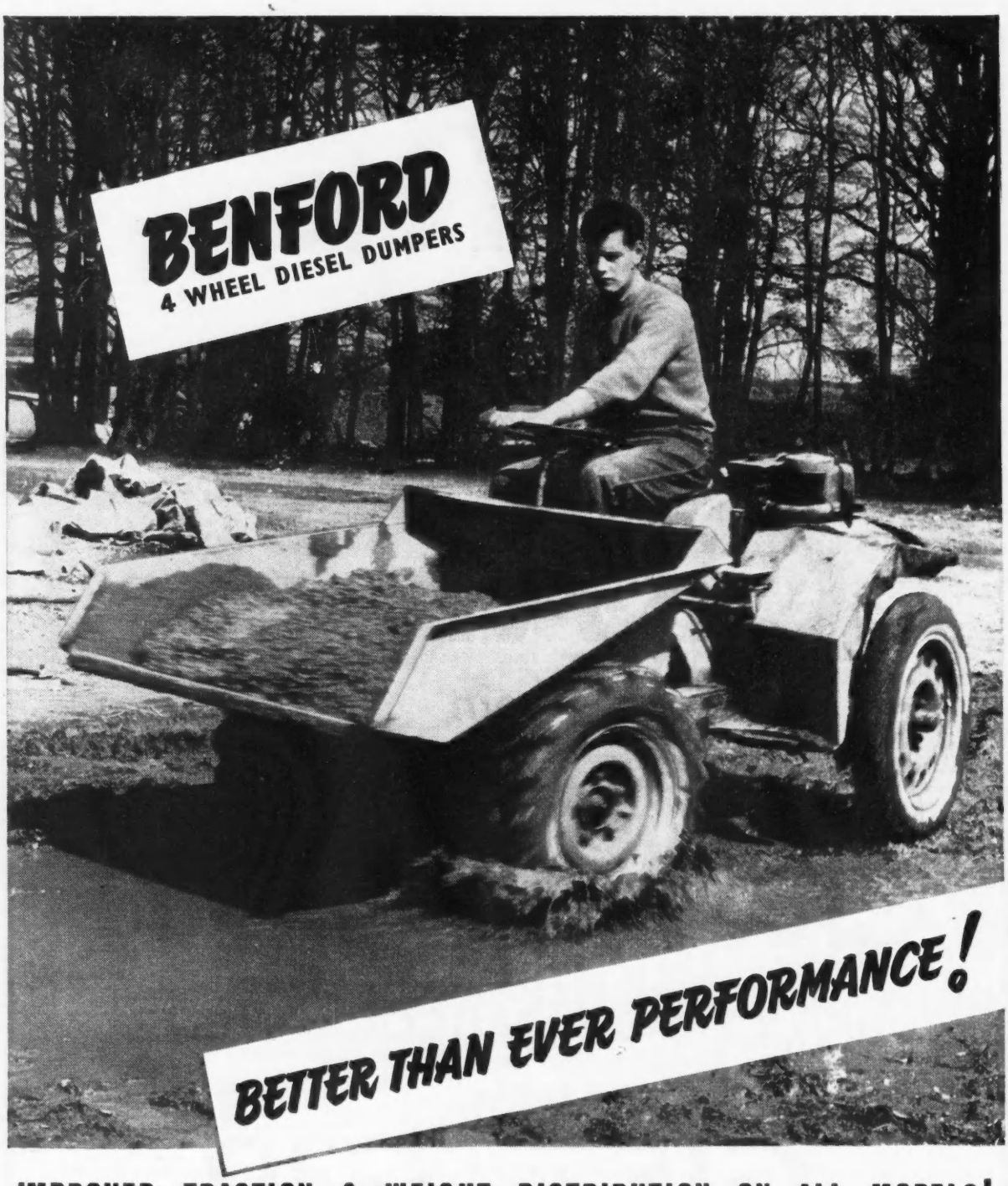

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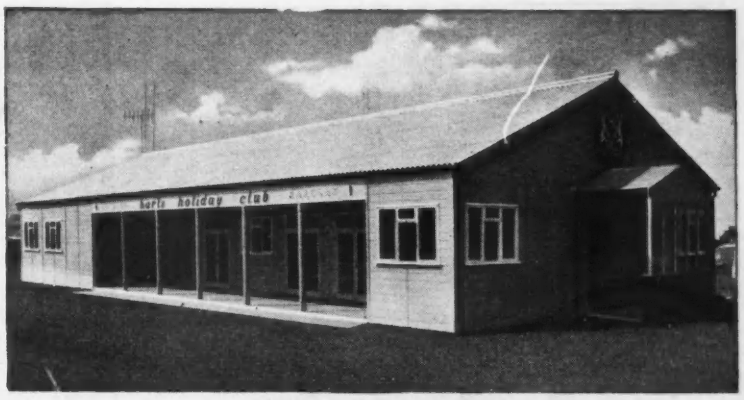
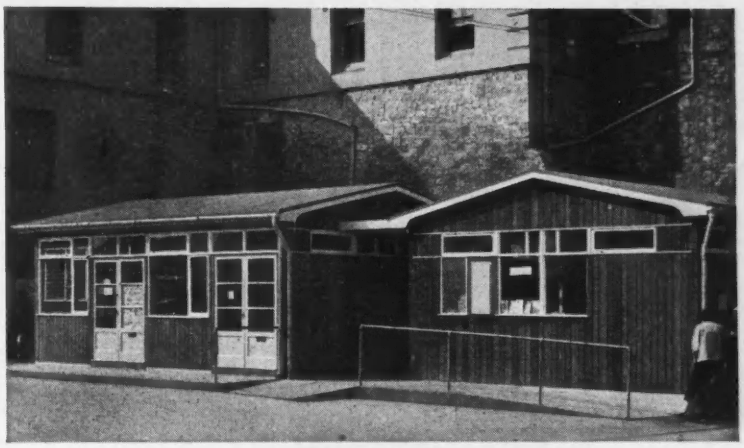


CLUB HOUSE 80′ x 40′.
Photograph by courtesy of Harts Holiday Club, Leysdown, Isle of Sheppey.



TEMPORARY SHOPS.
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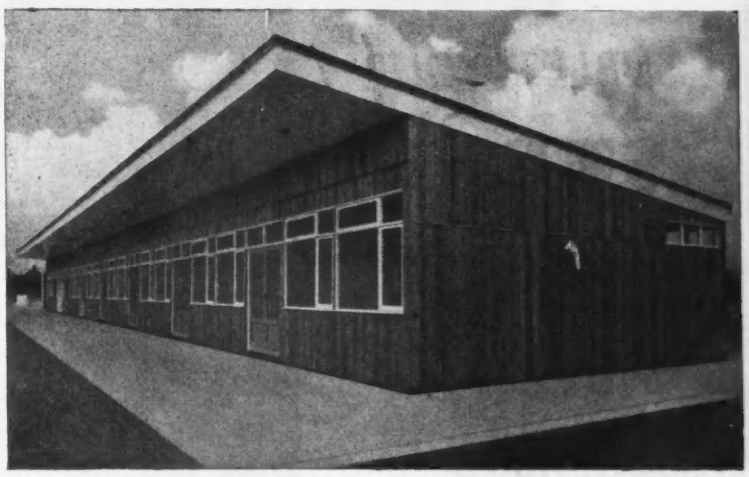

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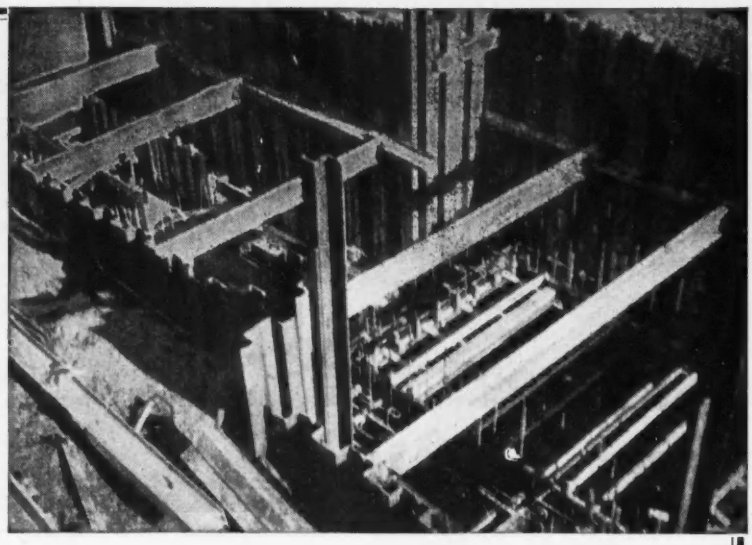

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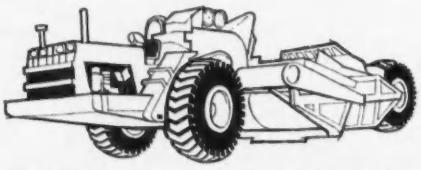
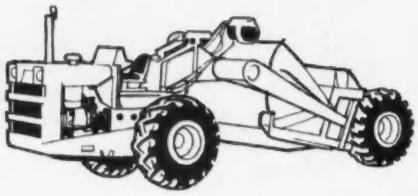


Model B 28 cu. yd. scraper powered by 335-360 h.p. engine.



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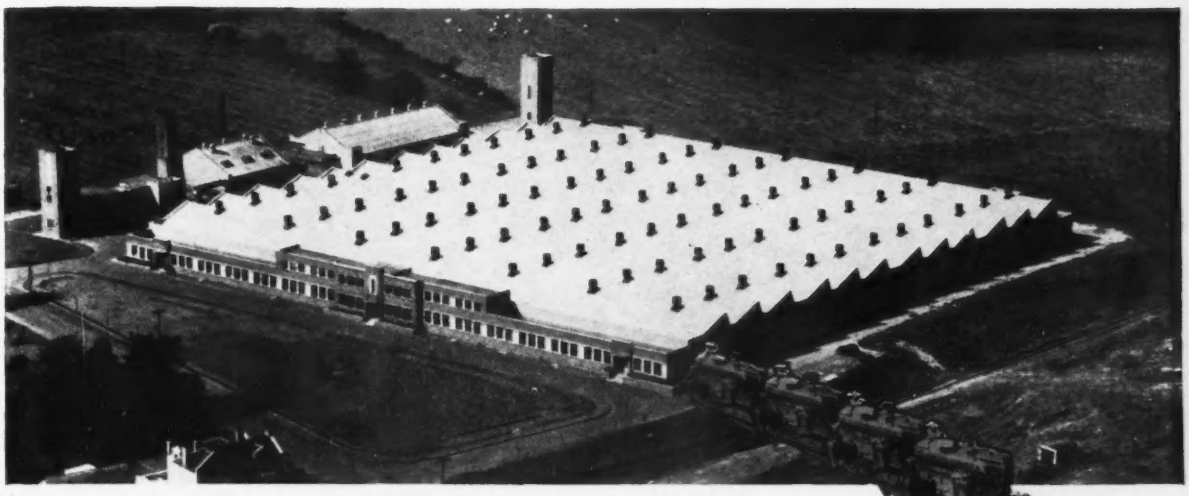

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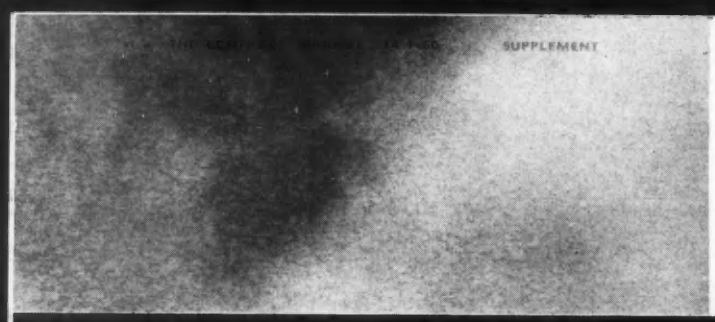
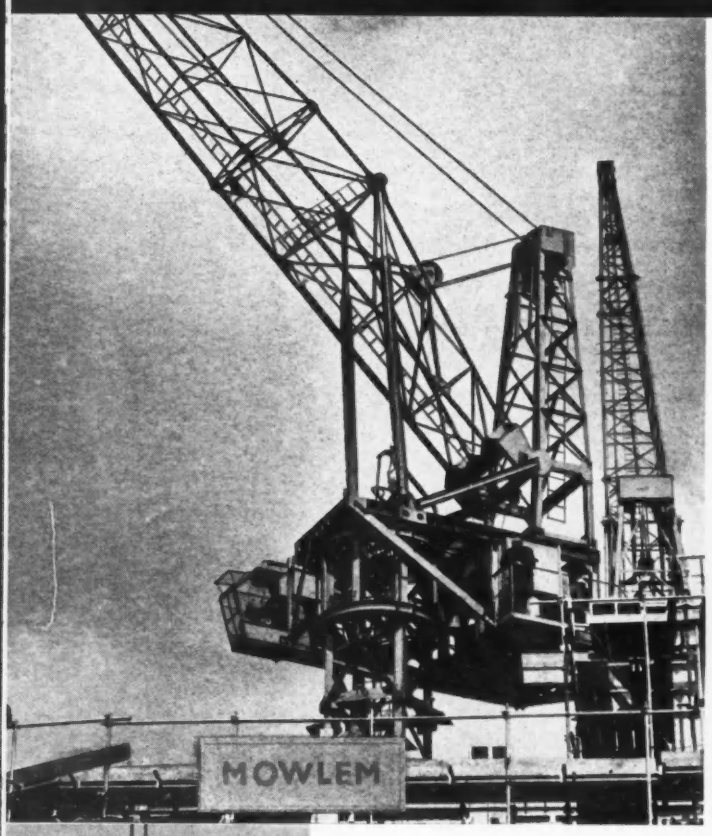
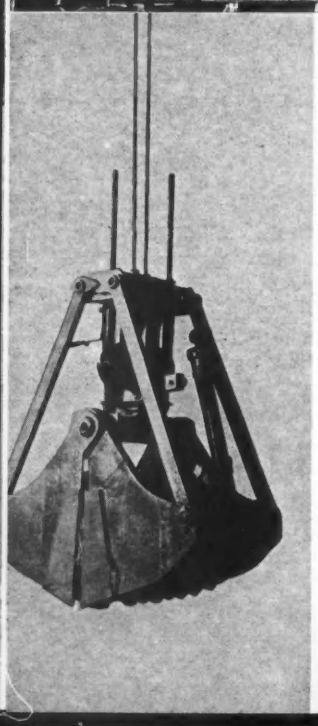


Towercrane





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Model	Maximum Radius		Minimum Radius		Hoisting speed ft/min.
	Radius ft.	Lifting capacity cwt.	Radius ft. in.	Lifting capacity cwt.	
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36HB/S	85	27	11 5	59	197
50HB/S	99	34	11 5	78	197

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20A/25	20–59	22–47	83–122	65/164	1·2	115
25A/30	26–66	25–55	92–135	65/164	1·2	115
35A/45	32–82	27–59	116–168	79/184	1·0	130
45A/55	36–99	30–73	139–204	79/184	1·0	130
56A/72	39–108	34–79	158–232	79/213	0·8	130

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★ Four multi-speed step operations can be carried out simultaneously.

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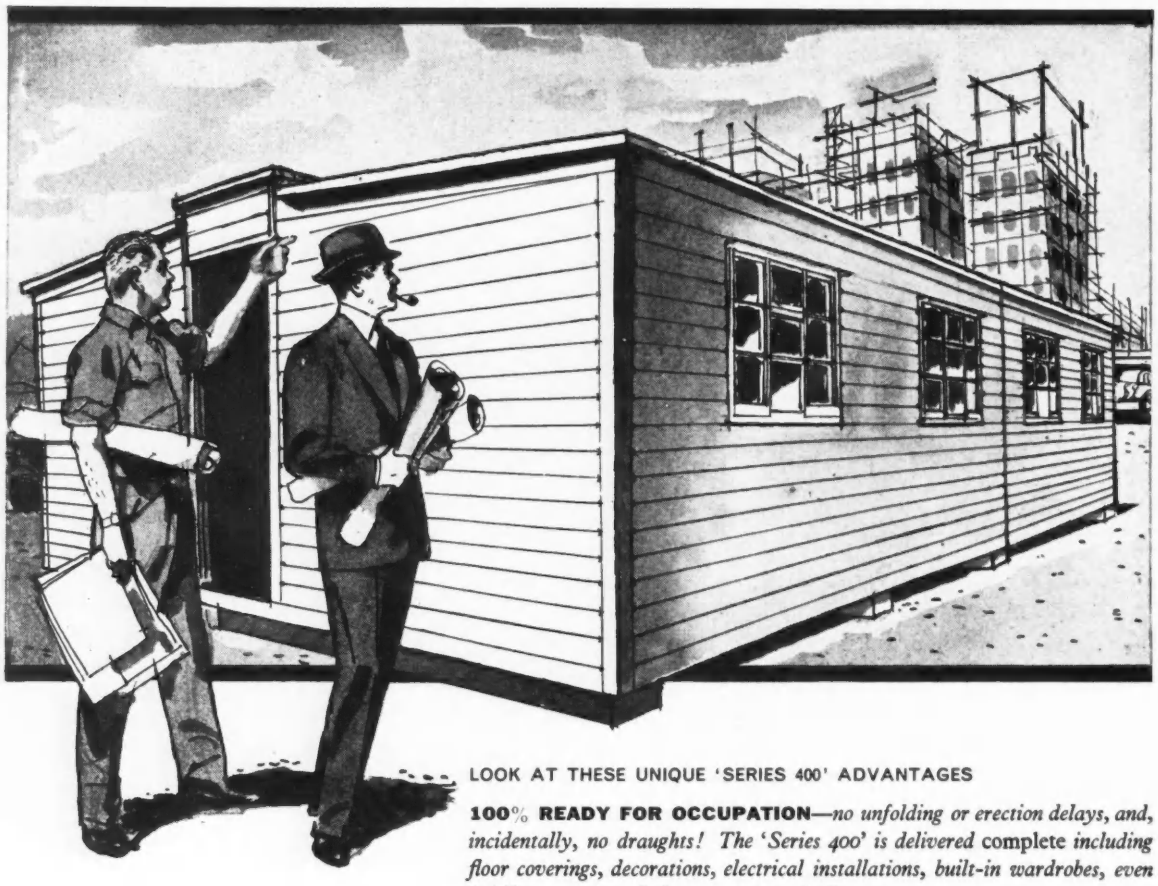

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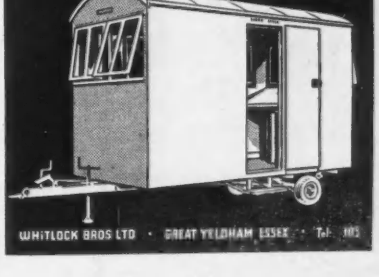

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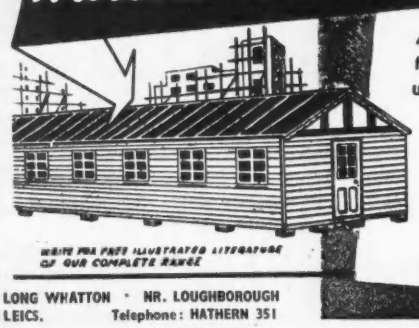

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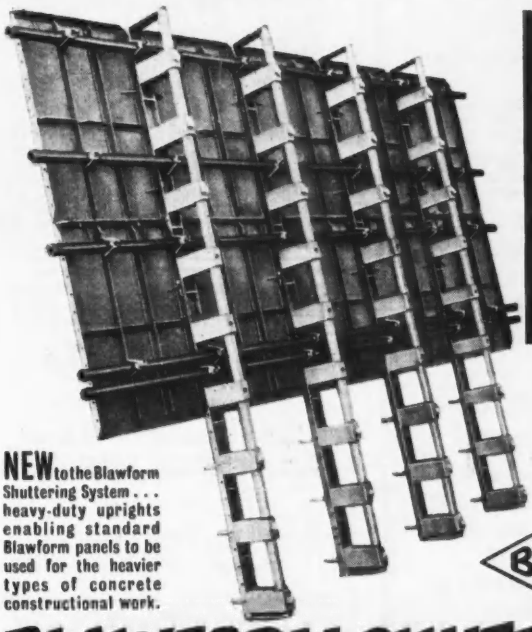

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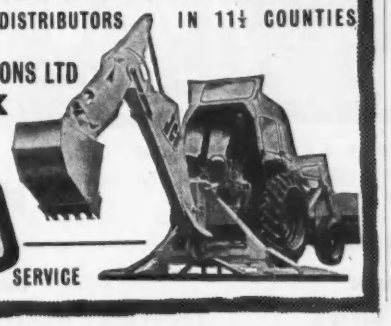

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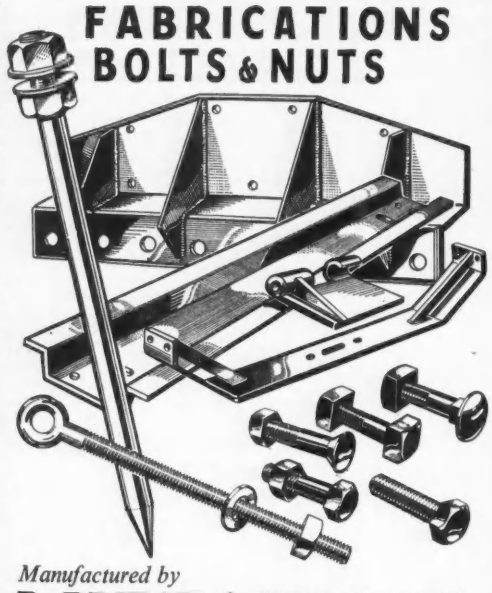

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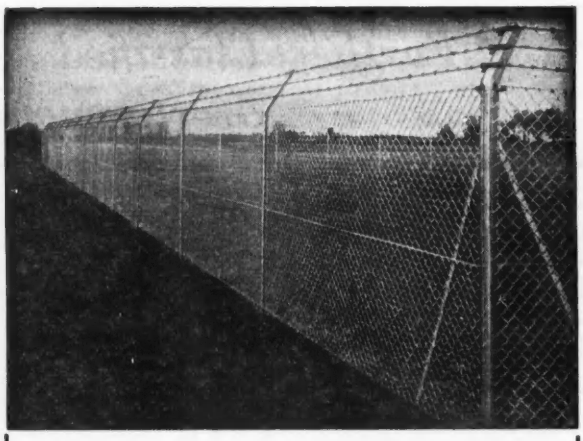

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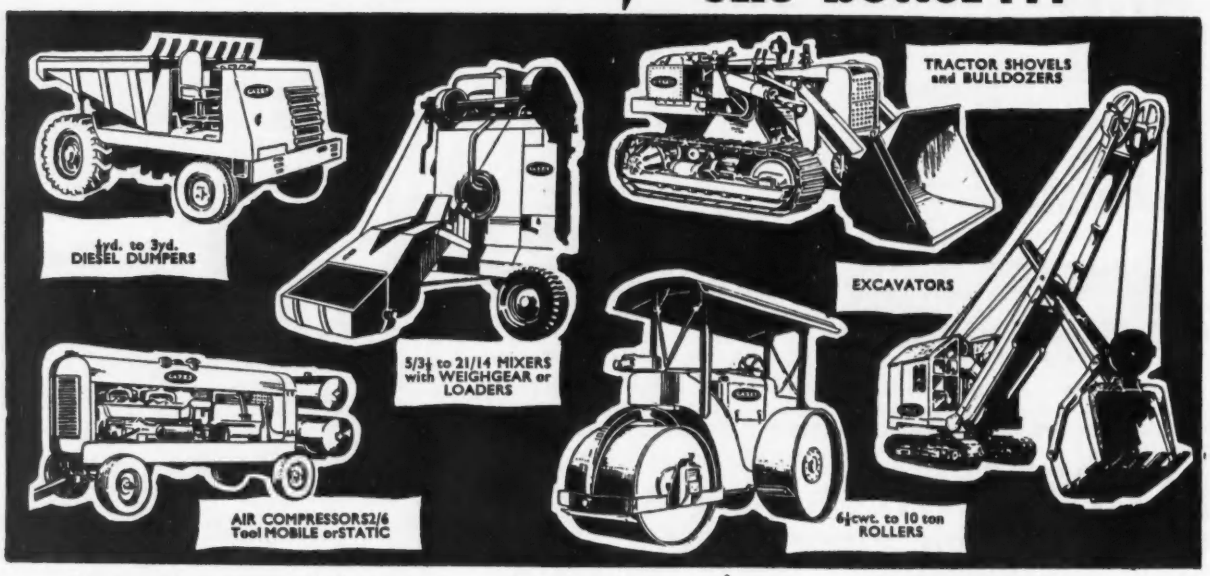

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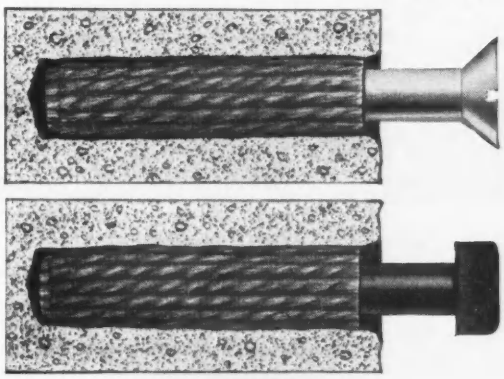

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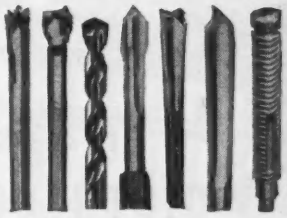

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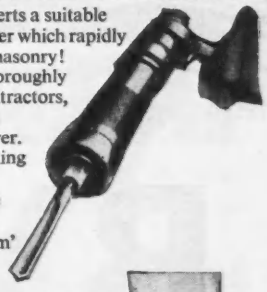

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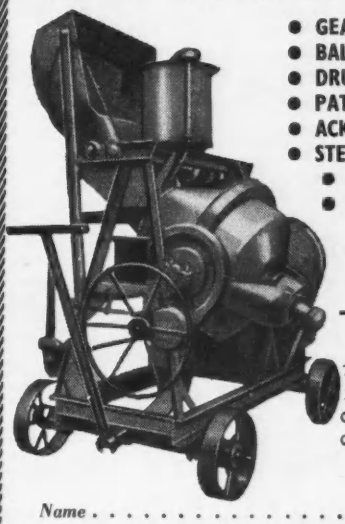

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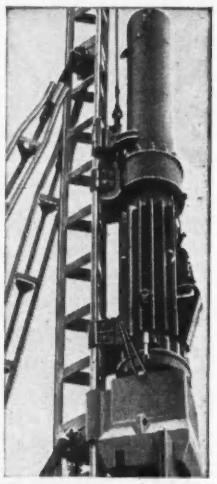

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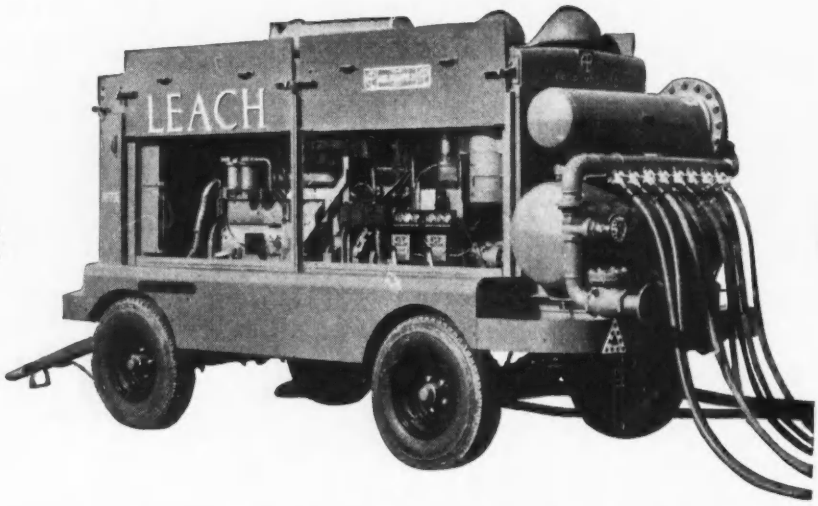

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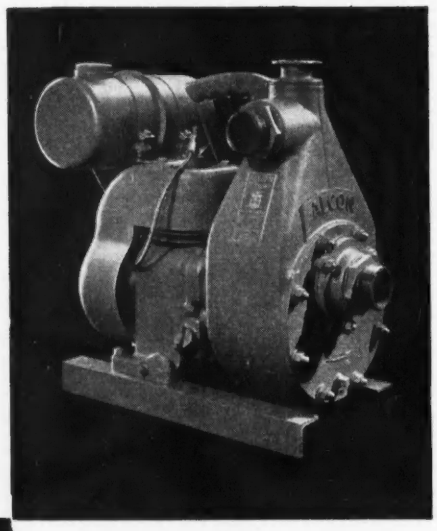

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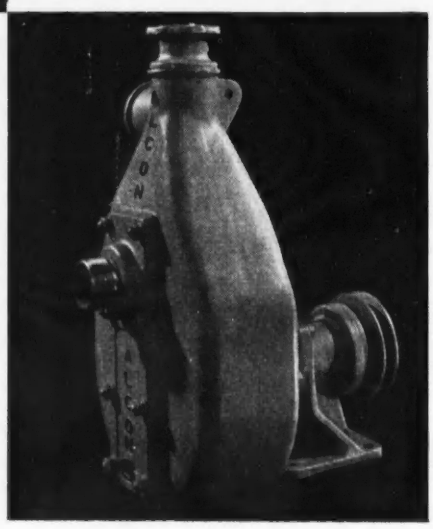

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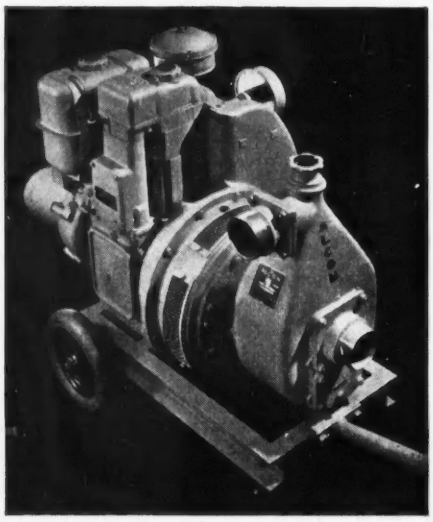

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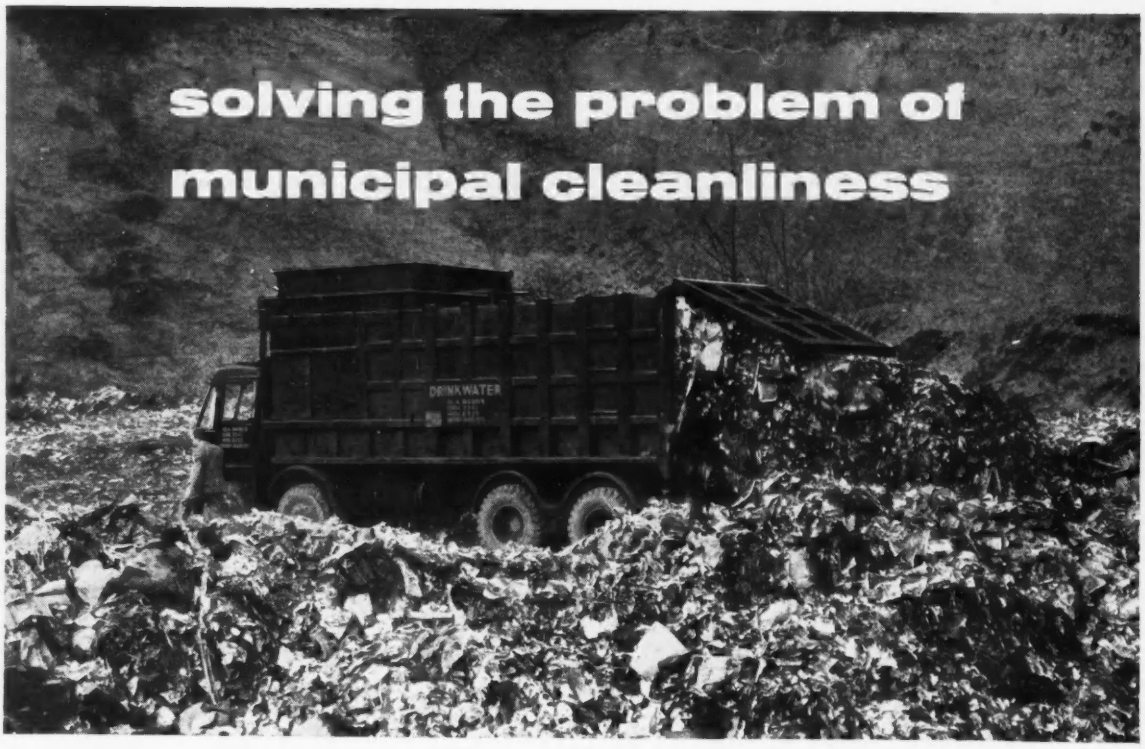

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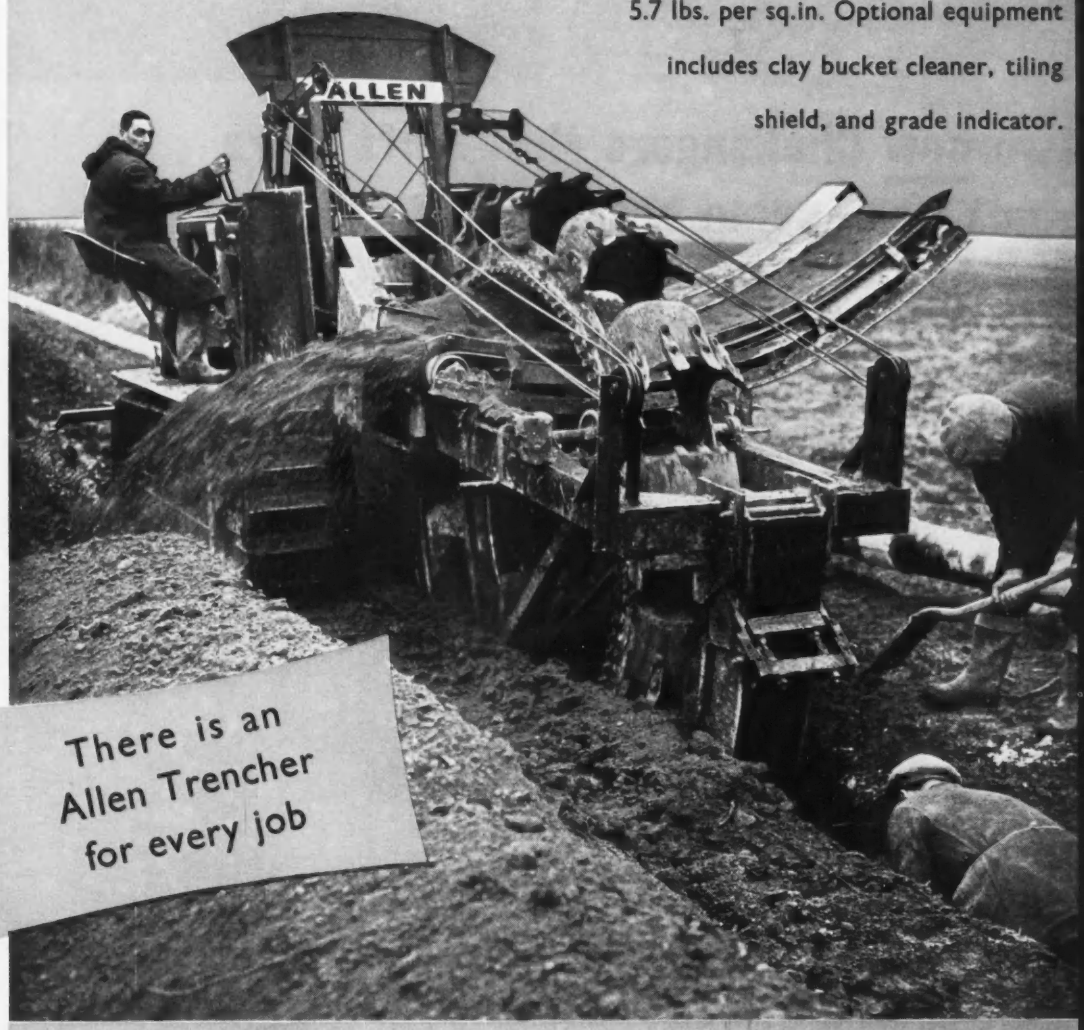

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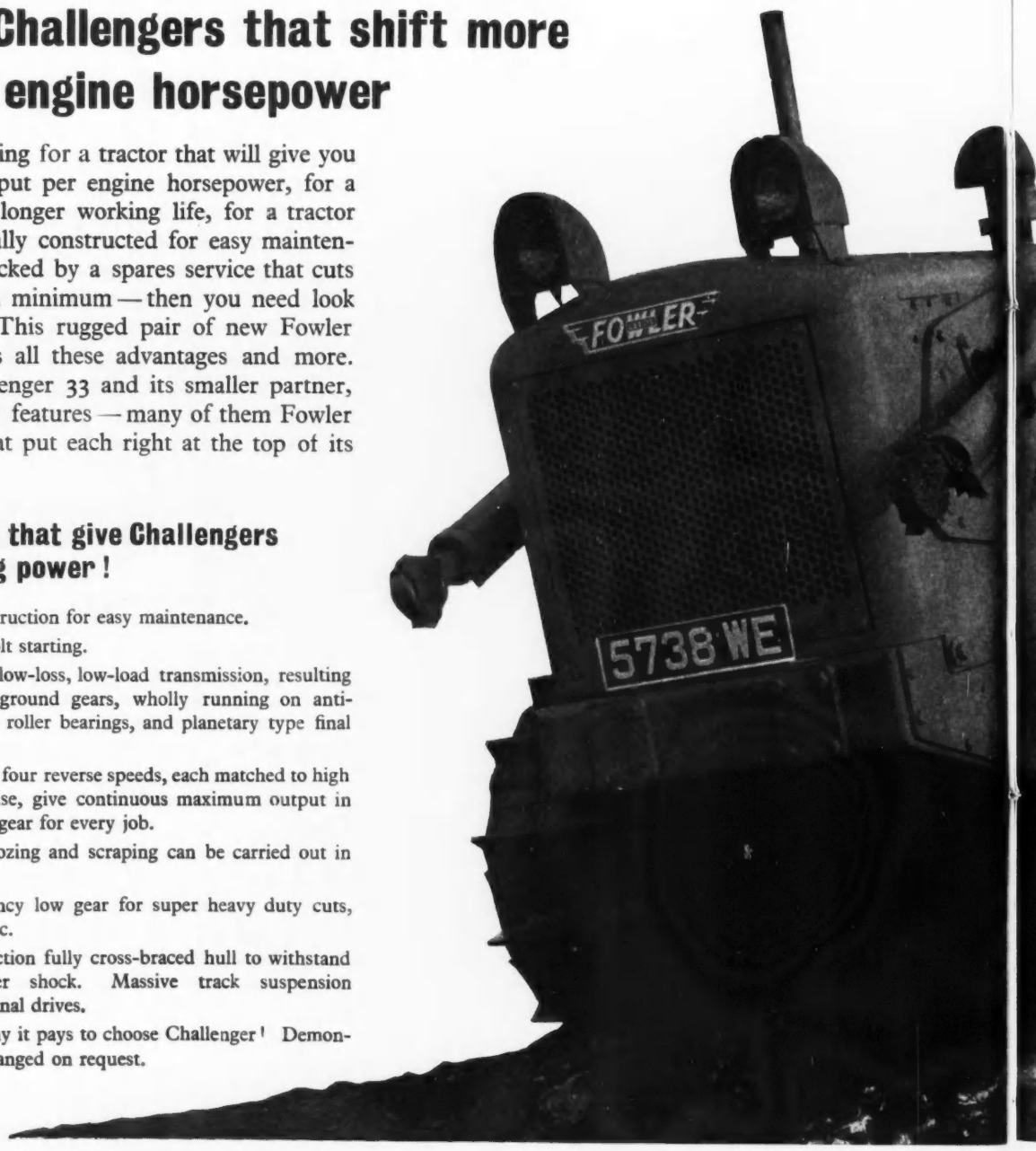

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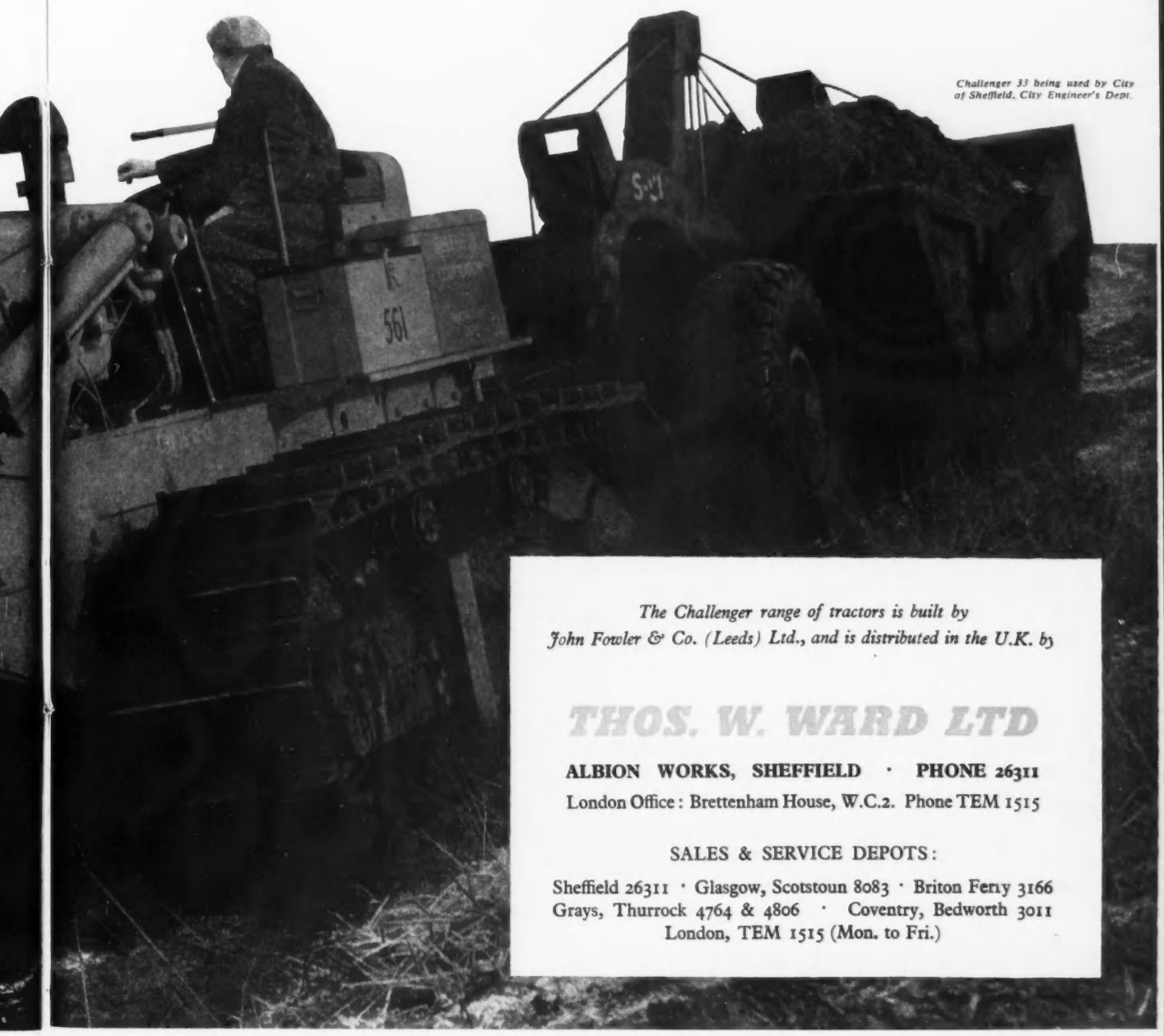

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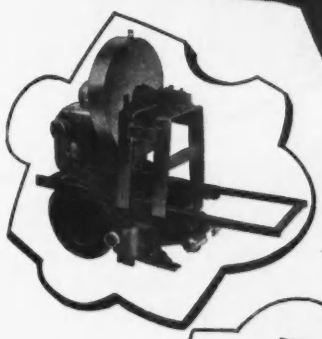

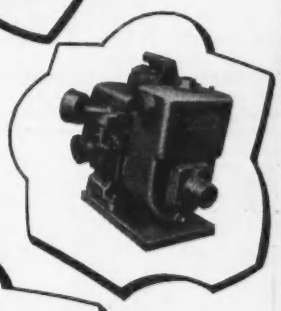

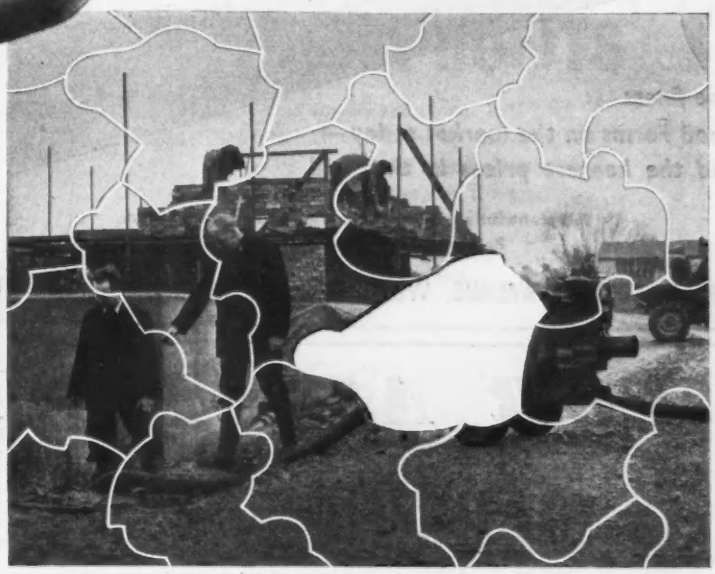

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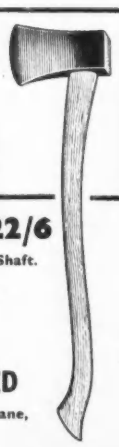

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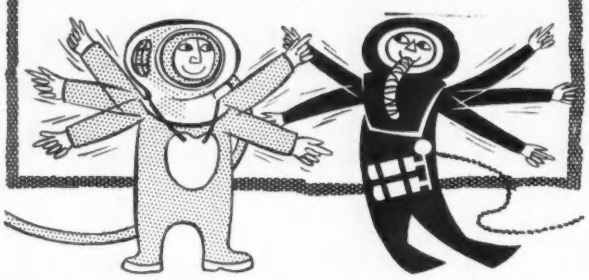

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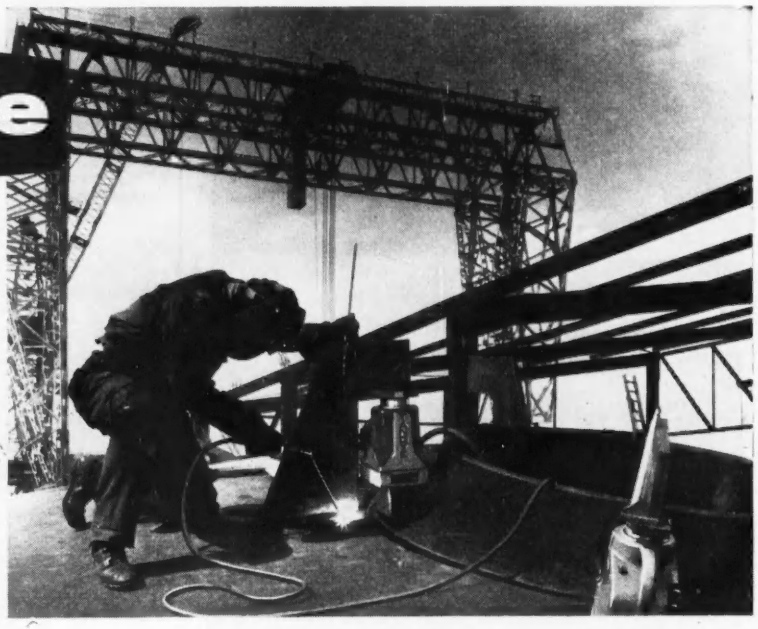

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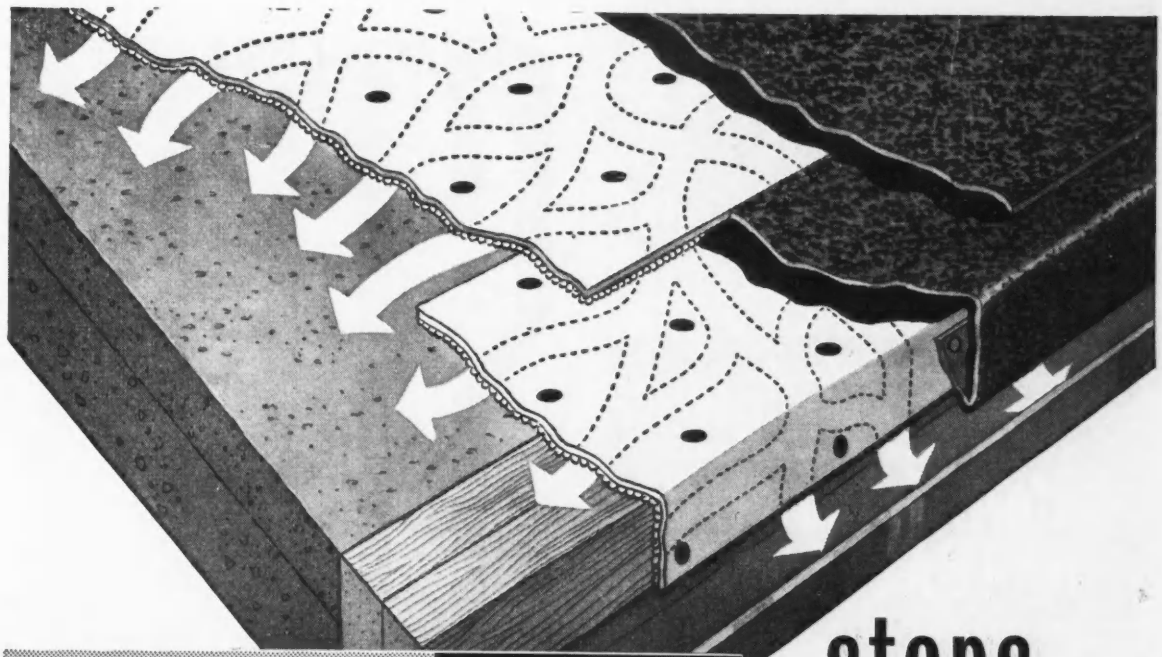

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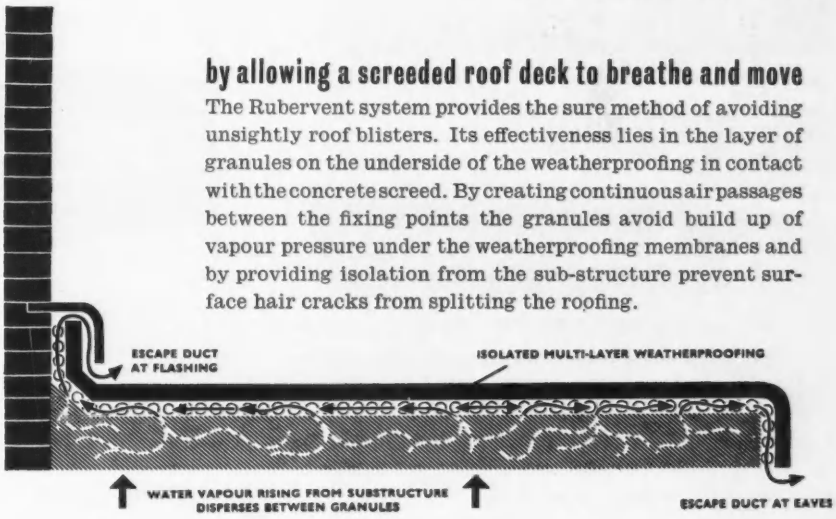

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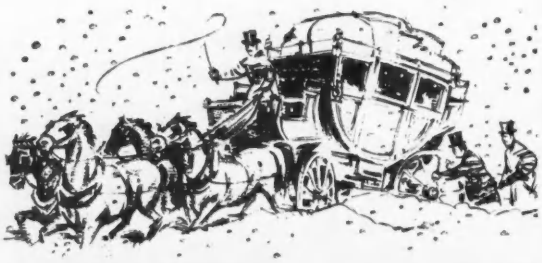

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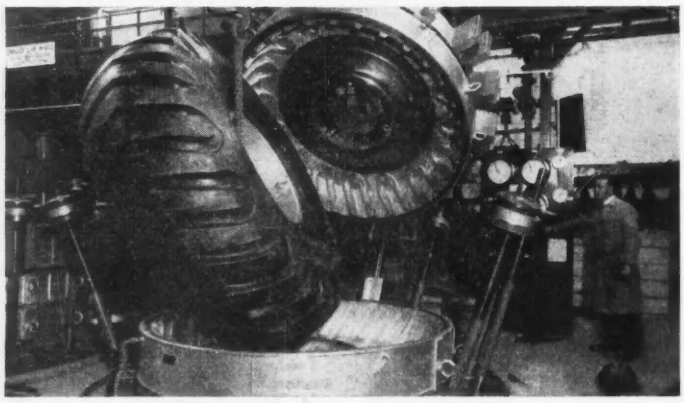

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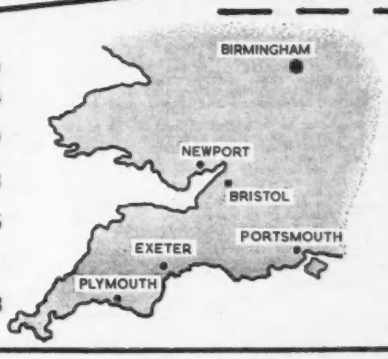

CONTRACTS

KENT COUNTY COUNCIL.

TENDERS are invited from road contractors, by not la er than 22nd JULY, 1960, addressed to the Chairman of the Roads Committee, County Hall, Maidstone, for SURFACE WATER DRAINAGE, the PROVISION of CARRIAGEWAYS, FOOTPATHS and incidental works, at the FOLLOWING PRIVATE STREETS:—

Part of Oxenhill Road, Kemsing, near Sevenoaks (length 318yd.).

Plantation Road, Hextable (length 416yd.).

Drawings and Conditions of Contract may be inspected and Specifications, Bills of Quantities obtained from the COUNTY SURVEYOR, County Hall, Maidstone, on payment of £2 (each), returnable upon receipt of bona-fide Tenders.

BUCKS COUNTY COUNCIL.

GREAT MISSENDEN-CHESHAM ROAD, B.485.

ROADWORKS—DEVIL'S DEN TO CHESHAM U.D. BOUNDARY.

TENDERS are invited for ROADWORKS (approx. 1,100yd.), comprising Realignment of Carriageway, Earthworks, Sett Kerbing, Channelling, Rolled Concrete Foundation, Tarmacadam Shaping, Drainage, and ancillary Works.

Drawings may be seen at the offices of the County Surveyor, County Offices, Aylesbury, from whom Contract documents may be obtained on payment of a deposit of £2, returnable on receipt of a bona-fide Tender.

Tenders must be received by me by 10 a.m. on MONDAY, 8th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD,
Clerk of the Council.

County Hall,
Aylesbury.
July, 1960.

CITY OF ROCHESTER.

CORN EXCHANGE IMPROVEMENT SCHEME.

Contractors wishing to submit TENDERS for the ABOVE are invited to submit their names for consideration to be included in a selected list of contractors to tender on a fixed-price basis for the work as outlined below.

The work comprises:—

(1) The Demolition and Rebuilding of the old Corn Exchange.
(2) The Construction of an Extension to the Library, consisting of a Bookstore and new Junior Library.
(3) The Installation of a new Heating and Lighting System.
(4) General Repairs, Improvements and Redecorations.

Applications to tender, which should be addressed to J. A. PEEL, Esq., A.M.I.C.E., M.I.Mun.E., City Surveyor, 66 Maidstone Road, Rochester, should arrive not later than First Post on MONDAY, 18th July, 1960, and should be accompanied by details of experience of this type of work, plant, and technical and supervisory staff available, together with the names of two technical and two financial referees.

Tender documents will be issued on or about 29th July, 1960, and must be returned by Noon on FRIDAY, 26th August, 1960. Work is expected to commence on 1st OCTOBER, 1960, and must be completed by 28th FEBRUARY, 1961, subject to certain exceptions.

Drawings may be inspected at the City Surveyor's Office during normal working hours.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester, Kent.
28th June, 1960.

UTTOXETER URBAN DISTRICT COUNCIL.

SURFACING OF PARK STREET, GRANGE ROAD AND REDFERN ROAD.

TENDERS are invited for the SURFACING BY MACHINE of approx. 9,500 sq. yd. of ¾in. FINE COLD ASPHALT with ½in. PRECOATED GRANITE CHIPPINGS ROLLED IN.

Contract documents are obtainable from the Surveyor to the Council, Old Bank House Annexe, High Street, Uttoxeter.

Sealed Tenders, in a plain envelope endorsed "Resurfacing of Park Street, Grange Road and Redfern Road," should be delivered to the undersigned not later than Noon on the 29th JULY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN H. KENNY,
Clerk of the Council.

Council Offices,
Old Bank House,
High Street, Uttoxeter.
20th June, 1960.

UTTOXETER RURAL DISTRICT COUNCIL.

MAYFIELD SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 1.

The Council invite TENDERS, on a FIXED-PRICE BASIS, from experienced public works contractors having substantial previous experience of such works, for the CONSTRUCTION of approx. 550 lin. yd. of 12in. dia. and 4,400 lin. yd. of 9in. dia. SPUN CONCRETE PIPE SEWERS, 1,750 lin. yd. of 6in. dia. GLAZED STONEWARE "FLEXADRAIN" PIPE SEWERS, 100 lin. yd. of 9in. dia. and 20 lin. yd. of 6in. dia. SPUN-IRON PIPE SEWERS, CONCRETE TUBE MANHOLES, TWO SEWAGE PUMPING STATIONS, 350 lin. yd. of 4in. dia. SPUN-IRON RISING MAIN, a SEWAGE DISPOSAL WORKS consisting of Detritus Tank, Settling Tanks, Bacterial Filters, Humus Tanks, Sludge Drying Beds, Sludge Pumping Station, Messroom and Store, and other incidental Works.

The Drawings can be inspected at, and copies of the Specification, Bills of Quantities and Form of Tender obtained from the Engineers, MESSRS. WILLCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3, on or after Monday, the 11th July, 1960, on application, accompanied by a statement of previous similar works executed and a cheque for Ten Guineas drawn in favour of the Council as a deposit, which will be refunded after the delivery of a bona-fide Tender and the return of all documents supplied.

Tenders, on the forms provided, are to be delivered to the undersigned not later than 12 o'clock, Noon, on 22nd AUGUST, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN H. KENNY,
Clerk of the Council.

Council Offices,
The Old Bank House,
72 High Street,
Uttoxeter, Staffs.
1st July, 1960.

CONTRACTS

ROYAL COUNTY OF BERKSHIRE.

HIGHWAYS ACT, 1959 (PART 9)—CODE OF 1892.

TENDERS are invited for MAKING-UP SILVER FOX CRESCENT (Part), WOODLEY. The works involved in this contract are as follows:—

800 sq. yd. of Hardcore.
800 sq. yd. of Bitumen Macadam.
300 lin. yd. of Kerb.
700 sq. yd. of Bitumen Macadam and Cold Asphalt Footways.
100 lin. yd. of Highway Drain and incidental works.

Drawings may be inspected at, and Specification, Bill of Quantities and Form of Tender obtained from, the Office of the COUNTY SURVEYOR, Shire Hall, Reading, on payment of a deposit of £2 (Two Pounds), which will be refunded on receipt of a bona-fide Tender.

Tenders, in envelope provided, must be returned not later than 12 Noon on FRIDAY, 29th July, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

COUNTY BOROUGH OF BRIGHTON.

WATER ENGINEER'S DEPARTMENT.

MILE OAK PUMPING STATION.

FIXED-PRICE TENDERS invited for the DEMOLITION of ENGINE HOUSE, together with FILLING and GRADING SITE at MILE OAK PUMPING STATION, MILE OAK ROAD, PORTSLADE.

Conditions of Contract, Specification, Bill of Quantities and Form of Tender obtainable from Waterworks Engineer, Water Department, 12 Bond Street, Brighton. Deposit of £1 1s. will be refunded on receipt of a bona-fide Tender and return of all documents supplied.

Tenders enclosed in plain sealed envelopes not bearing any name or mark indicating the sender and endorsed "Tender—Demolition of Engine House, Mile Oak," to be delivered to me before Noon on FRIDAY, 15th July, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton, 1.

BOROUGH OF NEWBURY.

PUMPING STATION AND RISING MAIN, LOWERWAY LANE.

TENDERS are invited for the CONSTRUCTION of a SEWAGE PUMPING STATION (480 super. ft.), together with 1,000 lin. yd. of 12in. dia. CAST-IRON CLASS B RISING MAIN and ancillary Works.

Forms of Tender and Bills of Quantities may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose office Plans and General Conditions may be inspected.

Sealed Tenders, endorsed "Pumping Station, Lowerway Lane," must be delivered to the undersigned not later than FRIDAY, 29th July, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN,
Town Clerk.

BOROUGH OF BROMLEY.

ERECTION OF FLATS.

TENDERS are invited for the ERECTION of 27 BED-SITTING ROOM FLATS at CROWN LANE, Bromley.

Drawings and Conditions of Contract (R.I.B.A. form specially adapted for use of local authorities) may be inspected upon application to the Borough Engineer, Municipal Buildings, Bromley.

Contractors should apply to the Borough Engineer for Bills of Quantities and Form of Tender not later than SATURDAY, 23rd July, 1960.

When applying for Bills of Quantities, contractors should also submit details of similar schemes undertaken by them, together with the names of two independent persons to whom reference can be made concerning such schemes.

Tenders must be submitted, in the envelopes provided, to the undersigned not later than the date stated on the Form of Tender.

The Council does not bind itself to accept the lowest or any Tender.

LIONEL KAYE,
Town Clerk.

Municipal Buildings,
Bromley, Kent.

RURAL DISTRICT COUNCIL OF GLOUCESTER.

UPTON ST. LEONARDS SEWERAGE AND SEWAGE DISPOSAL SCHEME.

The Council invite TENDERS, on a fixed-price basis, from contractors having experience of similar works, for the ABOVE-MENTIONED SCHEME, which consists of:—

(a) Laying of approx. 4,200 lin. yd. of 6in. dia. Spun-Iron and G.S.S. Sewers, together with Construction of relevant Manholes.
(b) Construction of a Sewage Pumping Station.
(c) Construction of a Sewage Diverter Station.
(d) Laying of approx. 940 lin. yd. of 4in. dia. Spun-Iron Pumping Main.
(e) House Connections.

All in accordance with the Drawings, Specification, Bill of Quantities and Conditions of Contract prepared by Messrs. W. Herbert Bateman and Partners, of Batheaston, the Consulting Engineers to the Council.

The Drawings, Specification, Bill of Quantities and General Conditions of Contract will be available for inspection by appointment at the Offices of the Council or at the Office of the Consulting Engineers during normal office hours, on and after 25th July, 1960, but technical questions can be dealt with only at the latter Office.

Copies of the General Conditions, Specification, Bill of Quantities and Form of Tender will be issued to intending contractors on application to Messrs. W. HERBERT BATEMAN AND PARTNERS, Chesterfield House, Batheaston, Bath, on or after 25th July, 1960. Applications must be accompanied by a deposit of £5 5s., which will be returned upon receipt of a bona-fide Tender, not subsequently withdrawn.

Applications for tender documents must be accompanied by the names and addresses of three engineers under whose direction similar schemes have been carried out by the applicant.

Tenders, on the form provided in the Bill of Quantities, accompanied by the Bill of Quantities priced in ink, must be delivered, in sealed packages, endorsed "Upton St. Leonards Sewerage Scheme," to the undersigned at 29 Brunswick Square, Gloucester, not later than First Post on MONDAY, the 22nd August, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and will not be responsible for any expenses incurred by those tendering.

W. J. KNIGHT,
Clerk to the Council.

29 Brunswick Square,
Gloucester.
4th July, 1960.

CONTRACTS

WORCESTERSHIRE COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

PAINTING OF BRIDGES.

TENDERS are invited from painting contractors for the PAINTING of the FOLLOWING BRIDGES:—

Upton-upon-Severn Bridge over the River Severn.
Powick New Bridge, near Worcester, over the River Teme.
Lower Mitton Bridge, Stourport-on-Severn, over the River Stour.

Tender documents can be obtained from the County Surveyor, County Buildings, Worcester, on a payment of a deposit of Two Guineas, and the contractors are requested to state for which bridge or bridges they wish to tender.

Sealed Tenders, in the envelope provided, must be delivered to the County Surveyor not later than 12 Noon on MONDAY, 25th July, 1960.

W. R. SCURFIELD,
Clerk of the Council.

Shirehall,
Worcester.

BOROUGH OF WREXHAM.

14 DWELLINGS AND 18 GARAGES—SUTTON DRIVE, QUEEN'S PARK, WREXHAM.
TWO DWELLINGS AND 10 GARAGES—ARCHERS WAY, QUEEN'S PARK, WREXHAM.

FIXED-PRICE TENDERS are invited for the ABOVE CONTRACT. Application for details, Tender Form and Bills of Quantities to Borough Engineer and Surveyor, 31 Chester Street, Wrexham, enclosing deposit of £2 2s., refundable on receipt of bona-fide Tender.

Closing date for receipt of Tenders, 12 Noon, MONDAY, 25th July, 1960.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
July, 1960.

BOROUGH OF TOTTENHAM.

COMMUNITY CENTRE, ALLINGTON ESTATE.

Builders wishing to TENDER are requested to notify the Borough Engineer, Town Hall, Tottenham, N.15, by not later than 20th JULY, 1960, together with £2 2s. deposit, refundable upon the submission of a bona-fide Tender. Plans may be seen at the Town Hall, N.15.

As soon as possible after the receipt of the deposit, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of Tenders.

The Council do not bind themselves to accept the lowest or any Tender.

M. LINDSAY TAYLOR,
Town Clerk.

CARLTON URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959 (PART IX).

PROPOSED SEWERING OF DARLEY AVENUE, CARLTON.

TENDERS are invited for the CONSTRUCTION of approx. 500yd. of 9in. and 6in. dia. FOUL and SURFACE WATER SEWERS and MANHOLES in Darley Avenue, Carlton.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor, E. C. KIRK, A.M.I.C.E., F.R.I.C.S., M.I.Mun.E., where Drawings and General Conditions of Contract may be inspected during normal office hours.

A deposit of £2 is required, returnable on receipt of bona-fide Tenders not subsequently withdrawn.

Tenders, in a plain sealed envelope endorsed "Private Street Works," to reach the undersigned not later than 10 a.m. on WEDNESDAY, 27th July, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. E. F. WALKER,
Clerk of the Council.

Council House,
Burton Road,
Carlton,
Nottingham.
29th June, 1960.

THE WATER COMMISSION, KINGSTON, JAMAICA.

FINANCE AND CONSTRUCTION OF WATER SUPPLY SCHEMES.

Experienced firms of civil engineering contractors are invited to register their names as interested in arranging the FINANCE for, and the CONSTRUCTION of, WORKS to AUGMENT the WATER SUPPLY of KINGSTON.

The schemes are at present being planned and are expected to comprise:—

(a) Either an Earth or a Concrete Dam.
(b) Intake Weirs, Aqueducts and Tunnels.
(c) Pumping Stations, Rising Mains and Gravity Pipelines.
(d) Treatment Works and Service Reservoirs.

The estimated cost of these works is £4m.

Construction of the pumping stations and pipelines will probably start early in 1961, and of the other works (which account for the greater part of the estimate) about one year later.

It is proposed that Tenders for the construction of the works shall be valued on the basis of unit prices in detailed Bills of Quantities and the value of the works as constructed, by remeasurement of the actual quantities of work executed. The Conditions of Contract will agree in general with the Overseas Conditions of Contract prepared jointly by the Association of Consulting Engineers and the Export Group for the Constructional Industries.

In their letter requesting registration, firms of contractors should state the maximum period over which repayment can be spread and the interest charges to be made.

Contractors should set out briefly particulars of similar works on which they have been engaged.

From the applications received, a short list will be prepared of the contractors to whom the contract documents will be issued. The final selection of a contractor to undertake the construction works will be made on the basis of the Tenders submitted, the financial terms offered, and the experience of the firm of contractors. The Commission reserve the right to make no award or to curtail the amount of work awarded.

Applications for registration should be addressed to the Secretary, The Water Commission, 28-30 Church Street, Kingston, Jamaica, West Indies, and should reach him by 15th AUGUST, 1960.

HOWARD HUMPHREYS AND SONS,
Consulting Engineers.

Victoria Station House,
Victoria Street,
London, S.W.1,
England.

CONTRACTS

EAST SUFFOLK COUNTY COUNCIL.

PROPOSED OFFICES AT LOWESTOFT.

The Council proposes to invite FIRM-PRICE TENDERS from selected builders for the ERECTION of a BLOCK of OFFICES with FOUR FLOORS and a SEMI-BASEMENT, totalling some 19,000 sq. ft. floor area.

Drawings, prepared under the direction of MR. E. J. CUNDLIFFE, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, and at the County Offices, The Marina, Lowestoft, between 9 a.m. and 5 p.m.

Building contractors wishing to Tender should submit their names to the COUNTY ARCHITECT, County Hall, Ipswich, before 5th August, 1960. From the names submitted a number of builders will be selected, and these will be furnished with Bills of Quantities, etc., on or about the 12th August; builders not selected will be notified at the same time. Tenders are required by the 6th SEPTEMBER, 1960.

CITY OF OXFORD.

BLACKBIRD LEYS ESTATE.

TENDERS are invited for the LANDSCAPING of an AREA OF GROUND at the Junction of SANDY LANE and BALFOUR ROAD, and for the CONSTRUCTION of a CHILDREN'S PADDLING POOL and PLAY AREA, a SHELTER and a BOUNDARY FENCE.

The appropriate Drawings and documents are at present under preparation, and interested contractors are asked to forward their names to the City Engineer, Town Hall, Oxford, by the 25th JULY, 1960. These Papers will be sent to contractors as soon as possible after this date.

HARRY PLOWMAN,
Town Clerk.

The Town Hall,
Oxford.

CITY OF NEW SARUM.

ESSEX SQUARE REDEVELOPMENT, SECTION 1, SALISBURY.

TENDERS are invited for the CONSTRUCTION of SIX HOUSES, 58 FLATS, FIVE GARAGES, together with Outbuildings, Pavings, Drainage and all ancillary Works, at ESSEX SQUARE, WEST HARNHAM, Salisbury.

Tenders are to be on a Fixed-price Basis and on Bills of Quantities, which will be available on Saturday, 30th July, 1960. Copies of the Bills of Quantities and Form of Tender can be obtained from the City Engineer, The Council House, Salisbury.

Tenders, in plain sealed envelopes, must be delivered to the undersigned not later than Noon on MONDAY, 29th August, 1960.

GEO. RICHARDSON,
Town Clerk.

FAILSWORTH URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959.

(CODE OF 1892.)

The Council invite TENDERS for the MAKING-UP of SLATER STREET, Failsworth.

Plans, Sections, etc., may be inspected, and Specifications, Conditions of Contract, Form of Tender and Bill of Quantities may be obtained from the Engineer and Surveyor, Town Hall, Failsworth, near Manchester, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and the return of all the documents.

The Work consists mainly of approx. 363 sq. yd. of Carriageway and 165 sq. yd. of Footways, together with incidental Work.

Drawings may be inspected at the above address during normal office hours.

Tenders, in plain sealed envelopes endorsed "Tender for Private Street Works, Slater Street," must be received by the undersigned not later than 12 o'clock Noon on SATURDAY, 13th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN WALTON,
Clerk of the Council.

Town Hall,
Failsworth,
Near Manchester.
4th July, 1960.

RICKMANSWORTH URBAN DISTRICT COUNCIL.

PROPOSED SURFACE WATER CULVERT—DAVENHAM AVENUE.

TENDERS are invited for the CONSTRUCTION of 210 lin. yd. of 27in. dia. PRECAST CONCRETE CULVERT and for the CONSTRUCTION of FIVE MANHOLES. The works are to be carried out in gardens at the rear of houses in DAVENHAM AVENUE and BATCHWORTH LANE, Rickmansworth.

Conditions of Contract, Specification, Bill of Quantities, Form of Tender and Drawings may be obtained from the Engineer and Surveyor on payment of Two Guineas deposit which is returnable on receipt of a bona-fide Tender.

Tenders, in a plain sealed envelope endorsed "Tender for the Proposed Surface Water Culvert—Davenham Avenue," are to be returned to the undersigned not later than First Post on 26th JULY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

C. G. RANSOME WILLIAMS,
Clerk of the Council.

Council Offices,
Rickmansworth.
5th July, 1960.

ENNERDALE RURAL DISTRICT COUNCIL.

285 HOUSES, 10 BUNGALOWS, 177 GARAGES AND SITE WORKS—ORGILL, EGREMONT, CUMBERLAND.

(FIXED-PRICE CONTRACT.)

FIXED-PRICE TENDERS are invited from building contractors with the necessary organisation and experience in the handling of large contracts for the ERECTION of 285 HOMEVILLE TRADITIONAL-TYPE HOUSES, 10 BUNGALOWS and 177 GARAGES at ORGILL, EGREMONT, and for the Construction of the Roads, Laying of Sewers and Watermains and ancillary Works in connection with the Development.

Form of Tender, Conditions of Contract, Bill of Quantities and Contract Drawings can be obtained from the Engineer and Surveyor, The Council Chambers, Cleator, Cumberland, on payment of a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, must be delivered to the undersigned by WEDNESDAY, 17th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN BRADLEY,
Clerk of the Council,

Council Chambers,
Cleator,
Cumberland.

CONTRACTS

COUNTY COUNCIL OF ESSEX.

HIGHWAYS DEPARTMENT.

TENDERS are invited for the IMPROVEMENT of the LONDON-NORWICH TRUNK ROAD, A.11, at the Junction with the A.130.

The Work includes the Construction of a Roundabout having a Central Island of 180ft. dia. and the Reconstruction of approx. 370 lin. yd. of Trunk Road.

New carriageways will consist of a cement-bound granular base, surfaced with hot-rolled granite asphalt.

Application for Tender documents should be made to the County Surveyor, Old Court, Chelmsford, accompanied by a deposit of £3, which will be returned if a bona-fide Tender is received and not subsequently withdrawn.

Tenders must be delivered to the undersigned by not later than 5th AUGUST, 1960.

CHRISTIAN BERRIDGE,
Clerk of the County Council.

County Hall,
Chelmsford.

COUNTY COUNCIL OF ESSEX.

HIGHWAYS DEPARTMENT.

APPLICATIONS invited from contractors to be placed on list of contractors from whom TENDERS may be invited for the CARRYING OUT of KERBING, PAVING and DRAINAGE WORKS, etc. (Council supplying materials). The list will remain in force until 31st March, 1965, and no obligation will be created between Council and applicants by placing of latter on the approved list. Applications to County Surveyor, Old Court, Chelmsford, by 22nd JULY, 1960. Canvassing disqualifies. No correspondence will be entered into regarding the list, nor will reasons be given for any omission therefrom.

CHRISTIAN BERRIDGE,
Clerk of the County Council.

County Hall,
Chelmsford.

WARWICKSHIRE COUNTY COUNCIL.

ROADS COMMITTEE.

LONDON-HOLYHEAD TRUNK ROAD, A.45.

MERIDEN BY-PASS—CONSTRUCTION OF HARD SHOULDERS.

TENDERS are invited for the CONSTRUCTION of HARD SHOULDERS 8ft. wide, approx. seven miles in length, including Alterations to the existing Drainage System and the Construction of two additional Lay-bys. The period fixed for completion is six months.

Conditions of Contract, Specification and Bill of Quantities may be obtained from DAVID WATSON, M.I.C.E., M.I.Mun.E., County Surveyor, Shire Hall, Warwick, on payment of a deposit of £2 2s which will be returned only upon receipt of a bona-fide Tender or the return of all documents.

Working Drawings and other relevant details may be examined at the Offices of the County Surveyor at any time during normal office hours.

Tenders are to be returned in plain sealed envelopes endorsed "Tender for Meriden By-pass — Hard Shoulders," addressed to the County Surveyor, by not later than FRIDAY, 5th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.

PLOUGHLEY RURAL DISTRICT COUNCIL.

SOULDERN SEWERAGE AND SEWAGE DISPOSAL SCHEME.

FIXED-PRICE TENDERS are invited for LAYING approx. 2,100 lin. yd. of 6in. dia. SEWERS, and LUMP SUM PRICE for the CONSTRUCTION of a SEWAGE DISPOSAL WORKS at SOULDERN, eight miles from Bicester, Oxon, in one Contract.

Documents obtainable from the Engineer and Surveyor on deposit of £2, refundable on receipt of a bona-fide Tender.

Tenders are to be received by the undersigned not later than 5 p.m., THURSDAY, 4th August, 1960.

WILFRID C. WIGNEY,
Clerk of the Council.

Waverley House,
Queens Avenue,
Bicester.
30th June, 1960.

PLOUGHLEY RURAL DISTRICT COUNCIL.

MIDDLETON STONEY SEWERAGE AND SEWAGE DISPOSAL SCHEME.

FIXED-PRICE TENDERS are invited for LAYING approx. 1,100 lin. yd. of 6in. dia. SEWERS, and LUMP SUM PRICE for the CONSTRUCTION of a SEWAGE DISPOSAL WORKS at MIDDLETON STONEY, four miles from Bicester, Oxon, in one Contract.

Documents obtainable from the Engineer and Surveyor on deposit of £2, refundable on receipt of a bona-fide Tender.

Tenders to be received by the undersigned not later than 5 p.m., THURSDAY, 4th August, 1960.

WILFRID C. WIGNEY,
Clerk of the Council.

Waverley House,
Queens Avenue,
Bicester.
30th June, 1960.

LYDNEY RURAL DISTRICT COUNCIL.

HEWELSFIELD, ST. BRIAVELS AND MORK WATER MAIN EXTENSION.

TENDERS, on a FIXED-RATE BASIS, are invited for the LAYING of 5,541yd. of 4in. and 7,505yd. of 3in. SPUN-IRON WATER MAIN, including all necessary Valves and Fittings and ancilary Works, in the Parishes of HEWELSFIELD and ST. BRIAVELS.

Specification, Bills of Quantities and Ferm of Tender may be obtained from the Engineer and Surveyor, Council Offices, Lydney, on payment of a deposit of Five Guineas, which will be refunded on the receipt of a bona-fide Tender and the return of all documents supplied in connection with the Tender.

Drawings and Conditions of Contract may be inspected at the office of the Engineer and Surveyor, Council Offices, Lydney.

Tenders, enclosed in the envelope supplied, must be delivered to the undersigned not later than First Post on WEDNESDAY, 31st August, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and the acceptance of any Tender will be subject to the approval of the Ministry of Housing and Local Government.

Dated this fourth day of July, 1960.

E. A. BEECH,
Clerk of the Council.

Council Offices,
Lydney, Glos.

CONTRACTS

DERBYSHIRE COUNTY COUNCIL.

BRIDGES AND HIGHWAYS DEPARTMENT.

FOOTBRIDGE OVER RIVER ROTHER, WORKS ROAD, STAVELEY.

TENDERS are invited for the CONSTRUCTION of a PRECAST, PRESTRESSED CONCRETE FOOTBRIDGE, 70ft. span, on Mass Concrete Abutments.

Forms of Tender, etc., from the undersigned, on payment of £2 deposit, cheques payable to "Derbyshire County Council." Deposit will be refunded on signing Contract or notification of non-acceptance.

Tenders, in plain sealed envelopes endorsed "Staveley Footbridge, B. and H.," to be delivered to the Clerk of the County Council, County Offices, Matlock, Derbyshire, by TUESDAY, 9th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

S. MEHEW,
County Surveyor.

County Offices,
Matlock.
30th June, 1960.

COUNTY OF ORKNEY.

WATER SUPPLY.

KIRBISTER AND BOARDHOUSE SCHEMES—PHASE III—CONTRACT NO. 24.

KIRBISTER FILTRATION AND PUMPING STATION.

REINFORCED CONCRETE WORKS.

ORKNEY COUNTY COUNCIL are prepared to receive TENDERS for the CONSTRUCTION of the REINFORCED CONCRETE WORKS for the Kirbister Filtration and Pumping Station, including Sedimentation Tank, Two Filters, Pump Room, Chemical Store, and Wash-water and Clear-water Tanks.

Plans may be seen on or after MONDAY, 11th July, 1960, at the Office of the County Surveyor, Kirkwall, or at the Offices of the Engineers, MESSRS. CROUCH AND HOGG, 18 Woodside Crescent, Glasgow, C.3, from the latter of whom copies of the Specification, Schedule of Quantities and Form of Tender may be obtained on written application, accompanied by a deposit of £3 3s. returnable on receipt of a bona-fide Tender.

A representative of the Engineers will meet intending offerers at 3 p.m. on FRIDAY, 29th July, at Kirbister Mill, on the Kirkwell-Orphir Road, about four miles from Kirkwall.

Sealed Tenders, marked "Water Supply—Contract No. 24," are to be lodged with the undersigned not later than 3 p.m. on TUESDAY, 16th August.

The County Council are not bound to accept the lowest or any Tender.

DOUGLAS M. WOOD,
County Clerk.

County Offices,
Kirkwall.
June, 1960.

BOROUGH OF HEYWOOD.

ASPHALT SURFACING—BAMFORD ROAD (PART)—CLASS III.

TENDERS are invited, on a FIXED-PRICE BASIS, in accordance with Ministry of Housing and Local Government Circular 51/57, for the SUPPLYING and LAYING of approx. 10,000 sq. yd. of ASPHALT SURFACING.

Tender documents may be obtained from the Borough Surveyor, Municipal Buildings, Heywood, on payment of a deposit of £2 2s.

Tenders to be delivered to the undersigned, in the envelope provided and endorsed "Asphalt Surfacing—Bamford Road," and to be received by the First Post on SATURDAY, 6th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. R. PARKER,
Town Clerk.

Municipal Buildings,
Heywood.
30th June, 1960.

BOROUGH OF PONTEFRACT.

SURFACING OF PART OF SPITTAL HARDWICK LANE IN BITUMINOUS MACADAM.

TENDERS are invited for the SURFACING of PART of SPITTAL HARDWICK LANE with a 1in. SINGLE COURSE CARPET of BITUMINOUS MACADAM.

Specifications and Forms of Tender may be obtained upon application to the Borough Engineer at the address below. Completed Forms of Tender are to be received in a sealed envelope endorsed "Resurfacing of Spittal Hardwick Lane," not later than 26th JULY.

A. F. RICHMOND, A.M.I.C.E.,
Borough Engineer.

Municipal Offices,
Pontefract,
Yorkshire.
July, 1960.

WIRRAL URBAN DISTRICT COUNCIL.

IRBY PLAYING FIELD.

CONSTRUCTION OF CAR PARK.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION at the ABOVE PLAYING FIELD of a CAR PARK having an area of approx. 875 sq. yd.

The Specification, Bills of Quantities and Form of Tender may be obtained on application to the Engineer and Surveyor, Council Offices, Heswall, at which Office the Conditions of Contract and Contract Drawings may be inspected.

Tenders, in plain sealed envelopes endorsed "Car Park—Irby Playing Field," must be delivered to the undersigned not later than 10 a.m. on SATURDAY, 30th July, 1960.

The Council does not bind itself to accept the lowest or any Tender received.

W. F. ROBERTS,
Clerk of the Council.

Council Offices,
Heswall, Wirral.

TRENT RIVER BOARD.

BOTTLE BROOK IMPROVEMENT SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 100yd. of 9ft. wide x 4ft. deep CONCRETE CULVERT; a CONCRETE CULVERT under Road B.6012; and a 22ft. span ACCESS BRIDGE; the Excavation of two Diversion Channels and the Regrading of approx. 3,000yd. of Bottle Brook, together with other ancillary works.

The Contract documents are obtainable from the ENGINEER, Trent River Board, 206 Derby Road, Nottingham, on payment of a deposit of £5 (cheques to be made payable to the Trent River Board) which will be refunded only on receipt of a bona-fide Tender which is not subsequently withdrawn and the return of the Contract documents.

Applications for documents must be received not later than First Post on the 20th JULY, 1960.

CONTRACTS

COUNTY BOROUGH OF PRESTON.

RESURFACING OF BLACKPOOL ROAD.

TENDERS are invited for the SUPPLYING and LAYING of approx. 8,200 sq. yd. of HOT-ROLLED ASPHALT in BLACKPOOL ROAD, together with Heating and Planing and other Preparatory Work.

Drawings may be inspected at the office of the Borough Engineer and Surveyor, Municipal Building, Preston, from whom the Specification and Bill of Quantities may be obtained on payment of a deposit of Two Guineas (£2 2s.), which will be refunded on receipt of a bona-fide Tender.

Tenders, in the envelope provided, bearing no indication of the sender, must be delivered to the undersigned not later than 10.30 a.m. on MONDAY, 8th August, 1960.

W. E. E. LOCKLEY,
Town Clerk.

Municipal Building,
Preston.

COUNTY BOROUGH OF BURY.

RECONSTRUCTION OF TENNIS COURTS.

TENDERS invited for CONVERTING TWO SHALE COURTS into TWO HARD COURTS at WHITEHEAD RECREATION GROUND.

Contract documents may be obtained from Borough Engineer's Office, Town Hall, Bury, where Drawings may be inspected.

Tenders, in the official envelope provided, should reach me not later than 10 a.m., 2nd August, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
5th July, 1960.

NESTON URBAN DISTRICT COUNCIL.

CONSTRUCTION OF CAR PARK.

TENDERS are invited for the CONSTRUCTION of a CAR PARK, and ancillary Works, at RABY ROAD, Neston.

Tender documents may be obtained from, and the Drawings inspected at, the office of the Engineer and Surveyor, Town Hall, Neston, Wirral.

Tenders, in plain sealed envelopes endorsed "Car Park," must be delivered to the undersigned by 10 a.m. on WEDNESDAY, 27th July, 1960.

F. H. D. HARTMAN,
Clerk of the Council.

Town Hall,
Neston,
Wirral,
Cheshire.

BRENTWOOD URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY and DELIVERY of one ELECTRICALLY OPERATED MOVABLE BOX-TYPE PAPER BALING PRESS.

Forms of Tender and Specification can be obtained from the Engineer and Surveyor.

Tenders, in the endorsed addressed envelope provided, to reach me by 26th JULY, 1960.

C. N. BOOTH,
Clerk of the Council.

Council Offices,
Ingrave Road,
Brentwood.

DORKING URBAN DISTRICT COUNCIL.

TENDERS will shortly be invited from a short list of contractors, for the REPAVING of approx. 3,500 sq. yd. of SLAB-PAVED FOOTWAY.

Experienced contractors are now invited to submit their names for consideration.

Application by letter, in envelopes endorsed "Footpath Paving," should reach the undersigned not later than 12 Noon on TUESDAY, 19th July, 1960.

F. G. SUTHERLAND,
Clerk of the Council.

Pippbrook,
Dorking, Surrey.
5th July, 1960.

URBAN DISTRICT COUNCIL OF KIRKBY-IN-ASHFIELD.

CONSTRUCTION OF ROADS, FOOTPATHS AND SEWERS—
MAPLE CRESCENT AND BOX CRESCENT HOUSING ESTATE, OFF SUTTON MIDDLE LANE.

TENDERS are invited for the CONSTRUCTION of approx. 1,100 sq. yd. of CARRIAGEWAY and FOOTPATH WORKS, and the LAYING of approx. 180 lin. yd. of 6in. dia. CONCRETE PIPE and 60 lin. yd. of 9in. CONCRETE PIPE as SURFACE WATER SEWERS, together with all Brick Manholes and other ancillary works.

Forms of Tender, Specification and Bills of Quantities may be obtained from MR. P. G. SHAW, Engineer and Surveyor to the Council, on receipt of £2 2s. returnable on receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

Drawings may be inspected at these Offices during normal working hours.

Tenders, in plain sealed envelopes endorsed "Roads and Sewers—Box Crescent and Maple Crescent," must reach me by 12 Noon on 2nd AUGUST next.

The Council do not bind themselves to accept the lowest or any Tender.

E. J. THOMAS,
Clerk of the Council.

Public Offices,
Kirkby-in-Ashfield,
Nottingham.

ISLE OF WIGHT RURAL DISTRICT COUNCIL.

BEMBRIDGE SEWERAGE.

TENDERS are invited for the CONSTRUCTION of a STORAGE SEWER at Bembridge, Isle of Wight, comprising about 54yd. of 96in. internal dia. Precast Tubes with an in-situ Reinforced Concrete Penstock Chamber. In addition, there will be 12in. dia. Connections to the existing Sewer, Precast Concrete Manholes, and other incidental works.

General Conditions of Contract, Specification, Bills of Quantities, Forms of Tender and Drawings may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, Telford House, Hulse Road, Southampton, on or after 18th JULY, 1960, upon payment of a deposit of £3 3s. which will be refunded only on receipt of a bona-fide Tender and the return of all documents.

Tenders, in a plain sealed envelope endorsed "Tender—Bembridge Sewerage," must be delivered to the CLERK OF THE COUNCIL, at 30 Pyle Street, Newport, I.W., not later than Noon on MONDAY, 8th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CONTRACTS

BOROUGH OF ALTRINCHAM.

URBAN ESTATE.

TENDERS are invited from qualified plumbers registered with Manchester Corporation Waterworks, for the INSTALLATION of BATHS, LAVATORY BASINS, HOT-WATER SYSTEM and FOOD STORES in 24 Three-bedroom type Houses on the ABOVE ESTATE.

Plans, Specification and Form of Tender may be obtained on application to the Borough Surveyor, Town Hall, Altrincham, upon payment of a deposit of Two Guineas made payable to the Borough Treasurer. This deposit will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, in the envelope provided, are to be delivered to the Town Clerk not later than 12 Noon on SATURDAY, 30th July, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. GRAHAM THOMAS,
Town Clerk.

Town Hall,
Altrincham.
July, 1960.

BOROUGH OF COLWYN BAY.

PUBLIC LIBRARY—EXTENSION AND ALTERATIONS.

TENDERS are invited for WORKS in connection with the EXTENSION (above foundation level) and ALTERATIONS to the PUBLIC LIBRARY, Woodland Road West, Colwyn Bay.

Plans, Bills of Quantities and Specification may be obtained upon application at the Office of MR. H. WILMAN, A.M.I.C.E., M.I.Mun.E., A.M.T.P.I., Borough Engineer and Surveyor, Whalley Range, Lansdowne Road, Colwyn Bay.

Tenders, in plain sealed envelopes endorsed "Library—Extension and Alterations," should be delivered to the undersigned not later than 12 Noon on FRIDAY, 5th August, 1960.

HAROLD E. BRAITHWAITE,
Town Clerk.

Town Hall,
Colwyn Bay.
5th July, 1960.

BOROUGH OF HENDON.

FLATTED FACTORY—NORTH CIRCULAR ROAD, HENDON.

The BOROUGH COUNCIL invites applications from general contractors for inclusion in a selected list of TENDERERS for the ABOVE CONTRACT.

The work will comprise the ERECTION of a FIVE-STOREY BUILDING and ELEVATED ROADS and RETAINING WALLS, all of Heavy Reinforced Concrete Construction.

The firms applying should furnish particulars of any recent works of a similar type which they have undertaken. The selected firms will receive the Tender documents early in August, for return by 12th SEPTEMBER.

Applications are to be received by the Borough Engineer and Surveyor, Town Hall, Hendon, London, N.W.4, by 12 Noon on 25th JULY, 1960.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon, N.W.4.

ISLINGTON BOROUGH COUNCIL.

TENDERS are invited for the DESIGN, PROVISION and INSTALLATION of a SYSTEM of FLOODLIGHTING at MARKET ROAD PLAYGROUND. Tender documents, available from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Upper Street, N.1, are returnable not later than Noon on TUESDAY, 16th August, 1960.

GRANGE URBAN DISTRICT COUNCIL AND NORTH LONSDALE RURAL DISTRICT COUNCIL.

CARTMEL VALLEY WATER MAIN.

TENDERS are invited, on a Fixed-price Basis, from experienced public works contractors, for the RENEWAL of approx. Six Miles of existing STEEL MAINS with 9in., 6in. and 4in. ASBESTOS-CEMENT PIPES, including the Reconnection of existing Services and Installation of Valves, Hydrants and Meters.

Application for the Specification and Bill of Quantities should be made to the Councils' Consulting Engineers, MESSRS. WARD, ASHCROFT AND PARKMAN, 38 The Temple, Dale Street, Liverpool, 2, together with a deposit cheque for £2 2s. made payable to the Grange Urban District Council, which will be returnable on receipt of a completely priced bona-fide Tender not subsequently withdrawn.

Drawings may be inspected during normal office hours at the Grange Urban District Council Offices or at the Offices of the Consulting Engineers, from whom Drawings may also be obtained on loan at a non-returnable charge of £2 2s. made payable to Messrs. Ward, Ashcroft and Parkman.

Tenders, in plain sealed envelopes clearly marked "Cartmel Valley Water Main," must be delivered to the undersigned not later than Noon on FRIDAY, 5th August, 1960, and should be accompanied by the names and addresses of three Engineers for whom similar work has been carried out.

The Councils do not bind themselves to accept the lowest or any Tender, and will not defray any expenses incurred by those tendering.

J. W. FORSTER,
Clerk of the Grange Urban District Council.

F. D. YOULE,
Clerk of the North Lonsdale Rural District Council.

Council Offices,
Grange-over-Sands,
Lancashire.
4th July, 1960.

DORKING AND HORLEY RURAL DISTRICT COUNCIL.

TENDER FOR 2-TON TIPPING LORRY.

TENDERS are invited for the SUPPLY and DELIVERY of a 2-TON TIPPING LORRY.

Copy of the Specification may be obtained from the Engineer and Surveyor, Council Offices, Massetts Road, Horley, Surrey.

Tenders, in plain sealed envelopes endorsed "Tender for Tipping Lorry," should reach the undersigned not later than Noon on MONDAY, the 18th July, 1960.

The Council does not bind itself to accept the lowest or any Tender.

MAURICE L. RIDGERS,
Clerk to the Council.

Council Offices,
Chalkpit Lane,
Dorking, Surrey.
6th July, 1960.

CONTRACTS

BEDFORDSHIRE COUNTY COUNCIL.

HIGHWAYS ACT, 1959.

TENDERS are invited for the MAKING-UP of the FOLLOWING ROADS:—

Suncote Avenue and Barrie Avenue, Dunstable. The work consists of Regulating and Surfacing the existing Carriageway and Footpaths and Soiling Verges, the length of the works being 290 lin. yd. approx.

St. Michael's Avenue, Houghton Regis.—The work consists of the Construction of a new Carriageway, with Kerbs and Channel, Footpaths, Verges and Storm Water Drainage, the length of the works being 140 lin. yd. approx.

Laburnum Grove, Streatley.—The work consists of the Construction of a new Carriageway, with Kerbs and Channel, Footpaths, Verges and Storm Water Drainage, the length of the works being 90 lin. yd. approx.

Brightwell Avenue, Totternhoe.—The work consists of the Construction of a new Carriageway, with Kerbs and Channel, Footpaths, Verges and Storm Water Drainage, the length of the works being 140 lin. yd. approx.

Copies of the Conditions of Contract, Specification and Bill of Quantities can be obtained from the County Surveyor, Dents Road, Bedford, on payment of Two Founds deposit, which will be refunded on receipt of a bona-fide Tender or the return of all documents before the tender date.

The Drawings may be examined at the above Office by appointment during working hours.

Tenders must be returned to me by FRIDAY, 5th August, 1960.

GEORGE BREWIS,
Clerk of the County Council.

Shire Hall,
Bedford.

HERTFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

DEMOLITION OF PROPERTY.

TENDERS are invited for the DEMOLITION of the FOLLOWING PROPERTIES at SMALLFORD and BUNTINGFORD:—

(1) Nos. 1 and 3 Ivy Cottages, Horseshoes Villa, Smallford.
(2) No. 40 High Street, and Nos. 2 and 4 Church Street, Buntingford.

The work includes Demolition, Filling Foundations, Removal of all surplus Materials, and complete Clearance of Site.

Tenders may be made for one or both of the properties.

Tender documents, returnable by 10 a.m. on WEDNESDAY, 27th July, 1960, may be obtained from the Offices of the COUNTY SURVEYOR, County Hall, Hertford.

CAMBRIDGESHIRE COUNTY COUNCIL.

GRAVEL AND GRANITE ASPHALT.

CONTRACT NO. 6013.

TENDERS are invited for SUPPLYING and LAYING by MACHINE approx. 1,650 tons of GRAVEL ASPHALT BASE COURSE and 1,100 tons of GRANITE ASPHALT WEARING COURSE on the ST. NEOTS-CAMBRIDGE TRUNK ROAD, A.45, between Caxton Gibbet and a point approx. 1,700yd. east.

Documents in respect of the work may be obtained from the County Surveyor, Mr. R. LACEY, M.I.C.E., at this address.

Tenders, in the official envelope, must reach the undersigned not later than 9 a.m. on SATURDAY, 30th July, 1960.

CHARLES PHYTHIAN,
Clerk of the Council.

Shire Hall,
Castle Hill,
Cambridge.

BOROUGH OF PRESTWICH.

ROAD MAINTENANCE, 1960.

TENDERS are invited from competent contractors for WORK of FOOTWAY RECONSTRUCTION on TRUNK, CLASSIFIED and DISTRICT ROADS.

The Plans and Conditions of Contract may be inspected at the Office of the Borough Engineer, from whom copies of the Tender documents may be obtained.

Tenders are to be received by the undersigned, sealed in the envelope provided, endorsed "Road Maintenance," not later than Noon on SATURDAY, 23rd July, 1960.

The Council is not bound to accept any Tender.

C. A. CROSS,
Town Clerk.

Town Hall,
Prestwich, Lancs.
8th July, 1960.

HOYLAKE URBAN DISTRICT COUNCIL.

PURCHASE OF MOTOR VAN AND AGRICULTURAL TRACTOR.

TENDERS are invited for the SUPPLY of one AUSTIN ½-TON VAN and one FERGUSON AGRICULTURAL TRACTOR, and the PURCHASE of two USED VEHICLES of the same make, in accordance with Specification and Conditions obtainable from the Engineer and Surveyor, 8 Riversdale Road, West Kirby.

Sealed Tenders, endorsed "Tender for Motor Van" and/or "Tender for Agricultural Tractor," to be sent to the undersigned by not later than Noon on SATURDAY, 30th July, 1960.

F. BARNES,
Clerk of the Council.

Town Hall,
Hoylake.
5th July, 1960.

NORTH EAST LINCOLNSHIRE WATER BOARD.

TETNEY SCHEME—MAINLAYING.

TENDERS are invited from experienced contractors for the LAYING and JOINTING of approx. Four Miles of 24in. dia. ASBESTOS-CEMENT PIPES and other ancillary work, from TETNEY to WEELSBY, near Grimsby, Lincs.

Tender documents may be obtained from the undersigned on payment of £2 2s. which will be returned upon receipt of a bona-fide Tender.

Tenders must reach the Board not later than Midday on TUESDAY, 9th August, 1960.

The Board do not bind themselves to accept the lowest or any Tender.

CYRIL COOPER,
Engineer and Manager.

Town Hall Square,
Grimsby.
July, 1960.

CONTRACTS

LINDSEY COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

BARDNEY BRIDGE PAINTING.

KEADBY LOCK SWING BRIDGE PAINTING.

SEPARATE TENDERS are invited for the PAINTING of BARDNEY BRIDGE over the RIVER WITHAM, and KEADBY LOCK SWING BRIDGE over the STAINFORTH AND KEADBY CANAL.

Copies of the Forms of Tender, Specifications and Bills of Quantities obtainable from COUNTY SURVEYOR, County Offices, Lincoln, upon deposit of One Guinea for each Contract, which will be refunded on receipt of a bona-fide Tender.

Tenders, in the envelope provided, bearing no name or mark indicating the sender, and endorsed "Bardney Bridge" and/or "Keadby Lock Swing Bridge," must be delivered not later than 10 a.m. on 22nd JULY, 1960.

County Offices,
Lincoln.
5th July 1960.

COUNTY BOROUGH OF GATESHEAD.

REDHEUGH COLLIERY YARD—CONSTRUCTION OF PLAYING FIELD.

TENDERS are invited for the PROVISION in part and SPREADING of TOPSOIL, the CULTIVATION and SOWING with GRASS SEED of approx. 4 acres of PLAYING FIELD, DRAINAGE and FOOTPATH WORKS, CONSTRUCTION of a WATER SUPPLY to CRICKET SQUARE, and ancillary works, including the Construction of High Jump, Long Jump, Concrete Practice Wickets, Groundsman's Storage Hut, and Alterations to Entrances and Fences.

Tender documents may be obtained from the Borough Surveyor, Swinburne Street, Gateshead, 8, upon payment of a refundable deposit of £2.

Tenders must be delivered to the undersigned not later than 12 Noon, 20th JULY, 1960.

C. D. JACKSON,
Town Clerk.

Town Hall,
Gateshead, 8.

BOROUGH OF ROWLEY REGIS.

STORMWATER SEWER—DOULTON ROAD, SPRINGFIELD.

TENDERS are invited for the CONSTRUCTION of approx. 267 lin. yd. of 15in. to 9in. dia. STORMWATER SEWER along the Carriageway of Doulton Road, together with a Silt Chamber, Canal Weir Extension, Manholes and ancillary works.

Specification and Bills of Quantities may be obtained from, and Conditions of Contract and Plans inspected at, the Office of the Borough Engineer and Surveyor, S. G. WOOD, M.I.Mun.E., on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be sent to the undersigned, in the envelope provided, endorsed "Doulton Road Stormwater Sewer," so as to arrive not later than Noon on THURSDAY, 21st July, 1960.

JOHN HILTON,
Town Clerk.

Municipal Buildings,
Old Hill, Staffs.

CATERHAM AND WARLINGHAM URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS—CREWES AVENUE, WARLINGHAM.

TENDERS are invited for the ABOVE WORKS, which include approx. 2,100 sq. yd. of Hot Rolled Asphalt Surfacing; 1,000 sq. yd. of new Tarmacadam Footpaths, and 450yd. Concrete Kerbing; also approx. 100yd. of 6in. dia. Surface Water Sewer.

Forms of Tender, Bills of Quantities and Specification may be obtained from, and the Drawings inspected at, the Office of the Engineer and Surveyor, Council Offices, Caterham.

Tenders, enclosed in the endorsed envelope provided, are to be delivered to the undersigned not later than 4 p.m. on 5th SEPTEMBER, 1960.

B. J. SMERDON,
Clerk of the Council.

Council Offices,
Caterham

HAVERFORDWEST RURAL DISTRICT COUNCIL.

SIMPSON CROSS SEWERAGE SCHEME.

FIXED-PRICE TENDERS are invited from competent public works contractors for the ABOVE SCHEME, comprising approx. 620yd. of 6in. SEWER with Manholes and House Connections, and the CONSTRUCTION of a SMALL SEWAGE WORKS with Fencing, Access Road, and appurtenant works.

Plans, Specifications and Bills of Quantities may be obtained from the Council's Engineer and Surveyor at 8-10 Picton Place, Haverfordwest. No deposit is required, but tenderers are expected to return all documents, and the Council reserves the right to charge for documents not returned.

Tenders should be received by me not later than FRIDAY, 9th September, 1960, in plain sealed envelopes marked "Simpson Cross Sewerage."

The Council does not undertake to accept the lowest or any Tender, and acceptance is subject to the approval of Welsh Office, Ministry of Housing and Local Government.

HENRY J. DICKMAN,
Clerk of the Council.

8-10 Picton Place,
Haverfordwest.
4th July, 1960.

OUNDLE AND THRAPSTON RURAL DISTRICT COUNCIL.

DEMOLITION OF HEMINGTON WATER TOWER.

TENDERS are invited from experienced contractors for the DEMOLITION and REMOVAL FROM THE SITE of a 50,000-gallon capacity STEEL WATER TOWER and Supporting Structure of Rolled Steel Joists approx. 70ft. high, at Hemington, Northamptonshire.

Contract documents and a Plan of the Site may be obtained from the Offices of the Consulting Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 6 Millstone Lane, Leicester, on payment of a deposit of One Guinea which will be refunded on receipt of a bona-fide Tender.

Tenders should be delivered to the undersigned not later than 10 a.m. on FRIDAY, the 19th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. H. HASSALL,
Clerk of the Council.

Council Offices,
Midland Road,
Thrapston, Northants.

CONTRACTS

BOROUGH OF ILFORD.

NEW ASSEMBLY HALL AND GYMNASIUM AT MAYFIELD SECONDARY SCHOOL FOR GIRLS.

TENDERS are invited for the ERECTION of a new ASSEMBLY HALL AND GYMNASIUM at Mayfield Secondary School for Girls, Christie Gardens, Chadwell Heath.

Applications, in writing, for the Form of Tender, Bills of Quantities and Drawings should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s. which will be returned on receipt of a bona-fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders, sealed in the envelope provided, endorsed "Tender for Mayfield School Hall and Gymnasium," with no mark of identification as to the sender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on 26th JULY, 1960.

Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

BOROUGH OF TORQUAY.

CONSTRUCTION OF MULTI-STOREY CAR PARK.

TENDERS are to be invited from selected contractors with experience of similar works, for the CONSTRUCTION this winter of a REINFORCED CONCRETE MULTI-STOREY CAR PARK at BEACON QUAY, Torquay.

Firms wishing to be considered for invitation to tender should submit their names, and particulars of similar works carried out, to the Borough Engineer, Town Hall, Torquay, not later than SATURDAY, 30th July, 1960.

T. ELVED WILLIAMS,
Town Clerk.

Town Hall,
Torquay.

CITY OF BIRMINGHAM.

TO PUBLIC WORKS CONTRACTORS.

ARGYLE STREET FOUL WATER PUMPING STATION RECONSTRUCTION.

The PUBLIC WORKS COMMITTEE invite TENDERS on a Fixed-price Basis for a Measure and Value Contract for the CONSTRUCTION of a CIRCULAR REINFORCED CONCRETE PUMPING STATION with a Precast Concrete Segmental Substructure 25ft. deep and a Circular Brick Superstructure; also 120 lin. yd. 15in. dia. Cast-iron Rising Main, Stoneware Pipe Sewers, and Incidental works.

Copies of the General Conditions (which include the Corporation's usual Fair Wages and Conditions of Labour Clause), Supplemental Conditions, Specification, Bills of Quantities and Forms of Tender may be obtained on and after 18th JULY, 1960, on payment of a deposit of £2 2s. at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1 (to whom all cheques should be made payable). The deposit will be returned on receipt of a bona-fide Tender. Plans can be seen at Room M.39, Civic Centre, Birmingham, 1.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Department (Room No. B.21), Council House, Birmingham, 1, not later than Noon on WEDNESDAY, 17th August, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 704—EIGHT 2-STOREY DWELLINGS—GLEBE FARM ROAD, STECHFORD.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of the ABOVE.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 19th JULY, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, 19th August, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

ALDERLEY EDGE URBAN DISTRICT COUNCIL.

RECONSTRUCTION OF SEWERS.

TENDERS are invited from experienced contractors in this class of work, for the LAYING of approx. 3,300yd. of CONCRETE AND STEEL SEWERS of 9in. to 36in. dia., and the CONSTRUCTION of an EJECTOR HOUSE.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. WARD, ASHCROFT AND PARKMAN, 38 The Temple, Dale Street, Liverpool, 2, upon payment by cheque only of Five Guineas deposit which will be returned upon the receipt of a bona-fide Tender and the return of the documents and Drawings supplied.

Sealed Tenders, marked "Reconstruction of Sewers," are to be delivered to the undersigned not later than 12 Noon on MONDAY, 22nd August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

B. ANSON,
Clerk of the Council.

Council Offices,
Alderley Edge.
July, 1960.

CONTRACTS

DORSET COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

PRIVATE STREET WORKS.

DUDSBURY ROAD (PART) AND KINGSWAY (PART), FERNDOWN.

The County Council will shortly invite contractors to TENDER for MAKING-UP TWO STREETS in Ferndown, near Wimborne.

The work comprises the following approx. quantities: 2,000 sq. yd. Foundations; 6,000 sq. yd. Surfacing in Carriageway and Footpaths; and 700 lin. yd. Surface Water Drainage.

The I.C.E. Conditions of Contract will apply.

Contractors wishing to tender should send their names to the COUNTY SURVEYOR, County Hall, Dorchester, by the 30th JULY, 1960, and in due course Tender documents will be sent to them.

DORSET COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

SURFACE WATER DRAINAGE.

The County Council are shortly to invite contractors to TENDER for a SURFACE WATER DRAINAGE SCHEME in WEST PARLEY (which adjoins the Bournemouth area).

The work will comprise the Provision and Laying of approx. 2,100 lin. yd. of Concrete Pipe varying from 36in. to 15in. dia., together with associated Excavation, Concreting, Construction of Manholes, and the usual ancillary works.

The I.C.E. Conditions of Contract will apply.

Contractors wishing to tender should send their names and a deposit of £2 (which will be refunded on receipt of a bona-fide Tender) to the COUNTY SURVEYOR, County Hall, Dorchester, not later than 30th JULY, 1960, and in due course Tender documents will be sent to them.

BOROUGH OF PORT TALBOT.

CWMAVON/BAGLAN/SANDFIELDS WATER MAIN.

TENDERS are invited for the PROVISION of approx. 3,000yd. of 8in. CAST-IRON PIPE; 2,000yd. of 10in. CAST-IRON PIPE; together with the CONSTRUCTION of ONE PUMPHOUSE, and ancillary works.

Drawings may be inspected at the Municipal Buildings, Port Talbot, and Specification, Bills of Quantities and Form of Tender may be obtained from the Borough Engineer, MR. G. V. GRIFFITHS, A.M.I.C.E., on payment of a deposit of £2 2s. which will be refunded to unsuccessful tenderers.

Tenders to reach the undersigned not later than Noon, 15th AUGUST, 1960.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot.
5th July, 1960.

OAKHAM URBAN DISTRICT COUNCIL.

OAKHAM RELIEF SEWERS.

The above Council are prepared to receive TENDERS from suitably experienced contractors, for the LAYING of approx. 4,100yd. of 6in., 9in., 12in., 15in. and 18in. dia. CONCRETE TUBE, CAST-IRON and STEEL SEWERS, together with Manholes and the Construction of Five Sludge Drying Beds and other small modifications at the Sewage Treatment Works.

Drawings may be seen at the Offices of the Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 6 Millstone Lane, Leicester, from whom the Specification and Bill of Quantities may be obtained on payment of a deposit of Five Guineas which will be refunded on receipt of a bona-fide Tender.

Tenders, on the form supplied and in the envelope provided, are to be delivered to the undersigned not later than 10 o'clock in the Forenoon of WEDNESDAY, 24th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. BROWNING,
Clerk of the Council.

Council Offices,
Oakham, Rutland.

NORTHAMPTON RURAL DISTRICT COUNCIL.

RECONSTRUCTION OF ROADE SEWAGE DISPOSAL WORKS.

TENDERS are invited from contractors experienced in sewage disposal works, for the CONSTRUCTION of SETTLEMENT TANKS, FILTERS, STORM TANKS, HUMUS TANKS, DOSING SIPHONS, PUMPING STATION, SCREENS, ACCESS ROAD, OFFICE and STORE, together with ancillary Pipework, Channels and Manholes.

Copies of Layout Plan, Bill of Quantities and Specification can be obtained from MR. R. J. MILLER, Surveyor to the Council, 1 Cheyne Walk, Northampton, upon payment of £3 3s. deposit, returnable on receipt of bona-fide Tender.

Tenders, in plain sealed envelopes, are to reach the undersigned by 10 a.m., SATURDAY, 27th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

CLIFFORD E. JONES,
Clerk of the Council.

Council Offices,
1 Cheyne Walk,
Northampton.
7th July, 1960.

WYCOMBE RURAL DISTRICT COUNCIL.

STOKENCHURCH SEWERAGE SCHEME.

TENDERS are invited for the LAYING of approx. 31,000 lin. yd. of 4in., 6in., 9in. and 12in. dia. CONCRETE and STONEWARE SEWERS; 1,000 lin. yd. of 4in. SPUN-IRON PUMPING MAINS; and the CONSTRUCTION of 373 CONCRETE MANHOLES; ONE PUMPING STATION BUILDING and ONE EJECTOR STATION BUILDING, together with Road Reinstatement, and other ancillary works.

Copies of the Tender documents may be obtained from K. E. M. DANIELS, A.M.I.C.E., M.I.Mun.E., A.R.I.C.S., Engineer and Surveyor, 8/9 Easton Street, High Wycombe, and the General Conditions and Drawings may be inspected at his Office during normal working hours.

Tenders, in the envelopes provided and endorsed "Stokenchurch Sewerage," must be delivered to the undersigned not later than First Post on SATURDAY, 27th August, 1960.

L. C. RYSDALE,
Clerk of the Council.

Council Offices,
17 High Street,
High Wycombe.

CONTRACTS

RUTLAND COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

GUNTHORPE IMPROVEMENT, A.6003.

TENDERS are invited for the ABOVE ROAD IMPROVEMENT, which is located approx. 2½ miles south of OAKHAM, on the Oakham-Uppingham Road, A.6003.

The scheme requires the Construction of 400 lin. yd. of new Carriageway 24ft. wide, Excavation of approx. 1,200 cu. yd., 800 lin. yd. Concrete Kerbing, Drainage and ancillary works.

The Drawings may be inspected by appointment at the Office of the County Surveyor, County Offices, Oakham, Rutland, from whom copies of the Form and Conditions of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained on payment of a deposit of £2 2s., which will be returned upon the receipt of a bona-fide Tender.

The Council does not bind itself to accept the lowest or any Tender.

Tenders, in a plain sealed envelope, endorsed "Gunthorpe Improvement," must be delivered to the undersigned not later than 10 a.m. on THURSDAY, 28th July, 1960.

A. BOND,
Clerk of the County Council.

County Offices,
Oakham.

RUTLAND COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

KETTON-TINWELL ROAD IMPROVEMENT.

TENDERS are invited for the ABOVE ROAD IMPROVEMENT, which is located approx. one mile east of KETTON, on the Ketton-Tinwell Road, A.6121.

The scheme requires the Construction of 400 lin. yd. of new Carriageway 24ft. wide, Excavation of approx. 1,000 cu. yd. of Material, together with 320 lin. yd. of Fencing, Drainage and ancillary works.

The Drawings may be inspected by appointment at the Office of the County Surveyor, County Offices, Oakham, Rutland, from whom copies of the Form and Conditions of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained on payment of a deposit of £2 2s., which will be returned upon the receipt of a bona-fide Tender.

The Council does not bind itself to accept the lowest or any Tender.

Tenders, in a plain sealed envelope, endorsed "Ketton-Tinwell Road Improvement," must be delivered to the undersigned not later than 10 a.m. on THURSDAY, 28th July, 1960.

A. BOND,
Clerk of the County Council.

County Offices,
Oakham.

BAILDON URBAN DISTRICT COUNCIL.

HIGHWAY SURFACING.

TENDERS are invited for SURFACING approx. 5,000 sq. yd. of CARRIAGEWAY at the KNOLL ESTATE, Baildon, with HOT ROLLED ASPHALT, and for EXECUTING the NECESSARY WORKS of Kerb Raising and Surface Preparation.

Contract documents may be obtained on application to the Council's Surveyor at this Town Hall.

Sealed Tenders should be sent in the envelopes provided so as to reach me not later than 20th AUGUST, 1960.

R. HOWARD MOORE,
Clerk of the Council.

Town Hall,
Baildon, Yorks.

WHITSTABLE URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959.

RUSSELL DRIVE (PART OF)—LENGTH 393FT. APPROX.

TENDERS are invited for the MAKING-UP and SEWERING of the ABOVE ROAD.

The works comprise the Construction of Concrete Carriageway, Tarmacadam Footways, Grass Verges, and the Construction of Foul and Surface Water Sewers.

Specifications, Conditions, Forms of Tender and Bills of Quantities may be obtained, and the Drawings inspected, at the Office of the Engineer and Surveyor, The Castle, Whitstable, during normal office hours.

The Tenders are to be returned to the undersigned, in a plain sealed envelope endorsed "Tender for Making-up of Russell Drive (Part of)," and must be delivered by not later than Noon on MONDAY, 8th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. TOMLINSON,
Clerk of the Council.

The Castle,
Whitstable.
July, 1960.

LOUTH RURAL DISTRICT COUNCIL.

TETNEY AND NORTH THORESBY SEWERAGE SCHEME.

CONTRACT NO. 6.

TENDERS are invited for the FOLLOWING:

(1) The Duplication of the existing Sewage Treatment Works at Tetney, Lincolnshire, comprising the Construction of a Balancing Tank, Settlement Tank, Filter Bed, Humus Tank, Pipelines, Paths, etc.;
(2) The Construction of approx. 1,850 lin. yd. of 6in. dia. Concrete Pipe Sewers, Manholes, etc., in Tetney; and
(3) The Construction of approx. 1,000 lin. yd. of 6in. dia. Concrete Pipe Sewers, Manholes, etc., in North Thoresby, Lincolnshire.

Contractors wishing to tender for this work should apply to the Council's Engineers, JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Headingley, Leeds, 6, enclosing a deposit cheque value Three Guineas made payable to the Louth Rural District Council, such deposit to be refunded on receipt of a bona-fide Tender and the return of the documents.

Tenders, with the Bills of Quantities priced in ink, enclosed in an envelope bearing no indication of the name of the sender, and endorsed "Tender—Tetney and North Thoresby Sewerage Scheme," are to be submitted to the undersigned not later than 12 Noon on 8th AUGUST, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

G. A. PITT,
Clerk of the Council.

Council Offices,
Cannon Street,
Louth, Lincs.
7th July, 1960.

CONTRACTS

MIDDLESEX COUNTY COUNCIL.

UXBRIDGE ROAD, A.4020.

DUPLICATION OF CARRIAGEWAYS BETWEEN CROSSWAY AND LONG LANE, HILLINGDON.

TENDERS are invited for the CONSTRUCTION of approx. 0.5 mile of DUAL 24ft. CARRIAGEWAYS between the ABOVE POINTS.

The Carriageways are to be constructed of a Sub-base of Clinker Concrete; a Base of Reinforced Concrete and Hot Rolled Asphalt Surfacing. The Roadworks include Earthworks, Surface Water Drainage, Bus-bays, Kerbing, Footways, Walls and Fencing, and ancillary works, including Demolitions.

Contract documents can be obtained, and Plans examined, at the Offices of the County Engineer and Surveyor, Middlesex House, 20 Vauxhall Bridge Road, London, S.W.1, upon deposit of £20, which is returnable on receipt of a bona-fide Tender.

Tenders are to be returned to the undersigned, in the envelopes provided, by not later than WEDNESDAY, 10th August, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

KENNETH GOODACRE,
Clerk of the County Council.

Guildhall,
Westminster, S.W.1.

HAMPSHIRE COUNTY COUNCIL.

TRUNK ROAD, A.30—BASING.

TENDERS will shortly be invited for the IMPROVEMENT of approx. ¼ mile of the ABOVE TRUNK ROAD east of Hatch (approx. three miles east of Basingstoke).

The works include Earthworks, Lean-Mix Concrete, Macadam Surfacing and Hard Shoulders, etc.

The Form of Contract will not include price variation conditions.

Applications should reach the undersigned not later than the 29th JULY, 1960.

H. N. JENNER,
County Surveyor.

The Castle,
Winchester.

DURHAM COUNTY COUNCIL.

(Agent Authority for Ministry of Transport.)

CARLISLE-SUNDERLAND TRUNK ROAD, A.184.

GATESHEAD-FELLING BY-PASS—FINAL SURFACING.

FIXED-PRICE TENDERS are invited for the SUPPLY and LAYING of approx. 58,250 super. yd. of TWO-COURSE HOT ROLLED ASPHALT 3in. thick on the ABOVE SECTION of TRUNK ROAD.

Forms and Conditions of Tender, Conditions of Contract, Specifications and Schedules may be obtained from the County Engineer and Surveyor, Aykley Heads, Durham.

Tenders, in plain sealed envelopes endorsed "Tender for Surfacing Felling By-pass," are to be delivered to the undersigned not later than Noon on FRIDAY, 29th July, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

BOROUGH OF LUTON.

TENDERS invited for ROAD IMPROVEMENT WORKS in PUTTERIDGE ROAD, including approx. 1,000 sq. yd. of Carriageway Construction, 120 lin. yd. of Kerbing, and other appurtenant works.

Tender documents from Borough Engineer, Town Hall, Luton, on payment of £2 2s. deposit, returnable after receipt of a bona-fide Tender not subsequently withdrawn. Cheques payable to Luton Corporation.

Tenders to TOWN CLERK, Town Hall, Luton, by Noon, THURSDAY, 28th July, 1960.

BOROUGH OF DROITWICH.

STREET LIGHTING—A.38.

TENDERS are invited from experienced contractors for the SUPPLY, DELIVERY and ERECTION of 55 PLAIN STEEL STREET LIGHTING COLUMNS, 30ft. mounting height, with 200-W Sodium Lamps, together with Wiring, Lanterns and auxiliary gear, and the DISMANTLING of 55 existing LIGHTING POINTS.

Conditions of Contract and Plan may be inspected at, and Specification, Bill of Quantities and Form of Tender obtained from, the Borough Engineer and Surveyor, Town Hall, Droitwich, during normal office hours, upon payment of a deposit of £2 2s., which sum will be returned on receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes endorsed "Street Lighting—A.38," to be delivered to the undersigned not later than 10 a.m. on THURSDAY, 28th July, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. G. FOSTER,
Town Clerk.

Town Hall,
Droitwich, Worcs.
July, 1960.

FAREHAM URBAN DISTRICT COUNCIL.

FAREHAM TOWN MAIN DRAINAGE.

The Council invite TENDERS for the CONSTRUCTION of approx. 7,700 lin. yd. of 9in. to 33in. dia. STONEWARE, CONCRETE, SPUN-IRON and STEEL PIPE SEWERS, together with the necessary Manholes, etc.; the CONSTRUCTION of a CULVERT-CUM-FOOTBRIDGE in PRESTRESSED CONCRETE, and all appurtenant works.

Forms of Tender, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. WATERHOUSE AND ROUNTHWAITE, MM.Inst.C.E., 165 Westmorland Road, Newcastle upon Tyne 4, upon payment of a deposit of Five Guineas, which will be returned on receipt of a bona-fide Tender.

Drawings illustrating the works to be carried out may be inspected at the Offices of the Council's Engineer and Surveyor, Westbury Manor, Fareham, Hants., or at the Offices of the Consulting Engineers.

Tenders should be delivered to me, the undersigned, in a plain sealed envelope endorsed "Fareham Town Main Drainage," not later than 12 Noon on 29th AUGUST, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. W. RANDS,
Clerk to the Council.

Merton,
5 Grove Road,
Fareham, Hants.

CONTRACTS

COUNTY BOROUGH OF HALIFAX.

EXTENSION OF SEWER AT HAYS LANE, MIXENDEN.

TENDERS are invited for the CONSTRUCTION of approx. 450 lin. yd. of 6in. dia. SALT GLAZED WARE SEWER with Five Precast Concrete Manholes.

Documents from Borough Engineer, Crossley Street, Halifax, on receipt of £1 (cheques payable to Halifax Corporation), returnable on receipt of a bona-fide Tender delivered to the undersigned not later than FRIDAY, 29th July, 1960.

RICHARD de Z. HALL,
Town Clerk.

Town Hall,
Halifax.

BOROUGH OF GODALMING.

DISTRICT ROADS—RECONSTRUCTION OF FOOTWAYS, ETC.

TENDERS are invited for WORKS comprising 670yd. of CONCRETE KERBING, 1,260 sq. yd. BITUMINOUS MACADAM FOOTWAY PAVING, 85 sq. yd. ARTIFICIAL PAVING, and various ancillary works at FOUR SITES in the Borough.

Contract documents may be obtained from the Borough Engineer and Surveyor, "Branksome," Filmer Grove, Godalming, on payment of a deposit of £2 2s. which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be enclosed in the envelopes provided and delivered to me not later than 10 a.m. on MONDAY, the 8th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. C. HODGINS,
Town Clerk.

Municipal Buildings,
Bridge Street,
Godalming.
8th July, 1960.

CITY OF CAMBRIDGE.

ARBURY ROAD HOUSING ESTATE NORTH SITE.

AMENDED ADVERTISEMENT.

CONSTRUCTION OF ROADS AND SEWERS—STAGE 5.

TENDERS are invited for the CONSTRUCTION of ROADS and SEWERS at the ABOVE SITE, comprising 14,900 sq. yd. of Hot Rolled Gravel Asphalt Carriageway; 3,770 lin. yd. of Kerb; 690 lin. yd. of Soil and Surface Water Sewer 15in.-9in. dia., and other ancillary works.

Applications for the Form of Tender, Bills of Quantities and Specification should be made to the City Engineer and Surveyor, The Guildhall, Cambridge.

Tenders are to be returned by 3 p.m. on the 1st SEPTEMBER, 1960.

Applications must be accompanied by a deposit of Five Guineas which will be returnable on receipt of a bona-fide Tender. The Drawings and General Conditions of Contract can be inspected at the City Engineer's Office.

The lowest or any Tender will not necessarily be accepted.

ALAN H. I. SWIFT,
Town Clerk.

The Guildhall,
Cambridge.

COLNE VALLEY URBAN DISTRICT COUNCIL.

TRUNK SEWER—ALTERATIONS TO MAIN STORM OVERFLOW AND RECORDING MANHOLES.

CONTRACT NO. A1.

TENDERS are invited for ALTERATIONS to existing STORM OVERFLOW and FLOW RECORDING MANHOLES, the INSTALLATION of CONTROL EQUIPMENT, Mechanically Raked Screens, and other appurtenant works.

Tender documents may be obtained on payment of a deposit of One Guinea, returnable on receipt of a bona-fide Tender not subsequently withdrawn, from the Office of the Council's Engineer and Surveyor, Town Hall, Cross Street, Slaithwaite, Huddersfield.

Tenders, endorsed "Trunk Sewer Alterations," and enclosed in a plain sealed envelope, are to be returned to the undersigned not later than First Post on WEDNESDAY, 27th July, 1960.

J. W. LOMAS,
Clerk of the Council.

Town Hall,
Cross Street,
Slaithwaite.
8th July, 1960.

THE URBAN DISTRICT COUNCIL OF ESTON.

LIGHTING IMPROVEMENTS.

HIGH STREET AND CHURCH LANE, ESTON.

TENDERS are invited for the SUPPLY and ERECTION of 51 STREET LIGHTING UNITS at High Street and Church Lane, Eston.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, 246 Normanby Road, South Bank, Middlesbrough, on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender (not subsequently withdrawn) or the return of all the documents before the date stated below.

The General Conditions of Contract and the Drawings may be inspected at the Office of the Engineer and Surveyor during normal working hours.

Tenders, in plain sealed envelopes endorsed "Tenders for Street Lighting," but not bearing any name or mark indicating the sender, must reach me not later than Noon on THURSDAY, the 28th July, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. MYRDDIN BAKER,
Clerk of the Council.

Council Offices,
Grangetown-on-Tees,
Middlesbrough, Yorks.
8th July, 1950.

COVENTRY CORPORATION.

FIRM-PRICE TENDERS are invited for ERECTION of a THREE-STOREY SHOP in MARKET WAY. Construction: Steel Frames with Precast Concrete Floors.

Two Guineas deposit by 18th JULY, payable to Coventry Corporation, for documents (refundable on return of documents and receipt of Tender by closing date).

Completed Tenders, by 1st SEPTEMBER, 1960, to CITY ARCHITECT, Council House.

CONTRACTS

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Southampton C.B.C. invites TENDERS for the FOLLOWING CONTRACT on Bills of Quantities available by 15th AUGUST, 1960:

Contract B.331—Erection of 24 Flats and 10 Maisonnettes in One 5-storey Block adjoining Shops, Weston Farm Estate.

Applications for Tender documents should be received by the BOROUGH ENGINEER, Civic Centre, Southampton, not later than 10 a.m. on FRIDAY, 29th July, 1960.

COUNTY BOROUGH OF SOUTHAMPTON.

TENDERS—ERECTION of HIGHTOWN JUNIOR AND INFANTS' SCHOOL (off Bursledon Road).

Forms and Particulars, including Bill of Quantities, from Borough Architect, on written application, by 22nd JULY, 1960. R.I.B.A. Contract plus Supplementary Conditions available for inspection.

Tender to TOWN CLERK, Civic Centre, Southampton, by 10 a.m., 17th AUGUST, 1960.

BOROUGH OF PORT TALBOT.

BOROUGH ENGINEER'S DEPARTMENT.

BAGLAN-SANDFIELDS LINK ROAD—CONSTRUCTION OF TWO BRIDGES.

The COUNCIL are desirous of obtaining TENDERS for the CONSTRUCTION of Two (2) BRIDGES, each spanning railway tracks.

The overall length of the bridges are 90ft. and 88ft. each in three spans.

The work will include the Provision of Precast Prestressed Concrete Decking, Reinforced Concrete Piers, Piling, etc., and the Formation of Approaches with Slag Filling from the Council's tip.

The details of the design for the prestressed concrete decking, piers, supports and piling to be provided by the tenderer.

Contractors wishing to tender are requested to submit their names to the undersigned on or before the 26th JULY, 1960. Plans, Specification, Details of Borings, etc., will be supplied after the above date.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot.
5th July, 1960.

BOROUGH OF WORTHING.

PRIVATE STREET WORKS.

The CORPORATION invites TENDERS for the FOLLOWING:—

Pendine Avenue.—The Construction of 2,390 sq. yd. of Carriageway with Flint Foundation and ¾in. Coarse Cold Asphalt, and 1,273 sq. yd. of Flag Paving.

The Form of Tender, Specification and Bill of Quantities may be obtained on application to the Borough Engineer and Surveyor, Town Hall, Worthing, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender or return of the contract documents.

General Conditions of Contract and Drawings may be inspected at the Office of the Borough Engineer.

Tenders, in the envelopes provided, endorsed "Pendine Avenue," must be returned on or before 2nd AUGUST, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

ERNEST G. TOWNSEND,
Town Clerk.

Town Hall,
Worthing.
8th July, 1960.

CITY OF MANCHESTER.

TENDERS invited for the complete OVERHAUL of SLATED ROOF at the HIGH SCHOOL OF ART, SOUTHALL STREET.

Specification from the CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by 29th JULY.

BASILDON URBAN DISTRICT COUNCIL.

TENDERS FOR THE SUPPLY OF DOMESTIC FUEL OIL.

TENDERS are invited for the SUPPLY of DOMESTIC FUEL OIL for the period 15th August, 1960, to 31st March, 1961.

Tender documents obtainable from the Engineer and Surveyor, Council Offices, 88 Town Square, Basildon, Essex.

Each Tender, contained in a plain sealed envelope endorsed in the top left-hand corner "Tender for Domestic Fuel Oil," bearing no name or mark indicating the sender, to be received by the CLERK OF THE COUNCIL at the above address by FRIDAY, 5th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender and reserve the right to accept the whole or any part of a Tender.

WHITCHURCH URBAN DISTRICT COUNCIL.

20 MULTIPLE GARAGES—SMALLBROOK ESTATE, WHITCHURCH.

FIXED-PRICE TENDERS are invited for the PROVISION and ERECTION of One BLOCK of 20 PRE-CAST CONCRETE GARAGES on a prepared site at SMALLBROOK HOUSING ESTATE, Whitchurch. Further particulars may be obtained from the Engineer and Surveyor at the address below.

Tenders, in plain sealed envelopes, endorsed "Smallbrook Garages," are to be delivered to the Clerk of the Council not later than 12 Noon on THURSDAY, 4th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK CLAYTON,
Clerk of the Council.

Pauls Moss,
Dodington,
Whitchurch, Shropshire.
8th July, 1960.

MID-WALES POLICE AUTHORITY.

TO BUILDERS AND CONTRACTORS.

TENDERS are invited for the ERECTION of TWO POLICE HOUSES at BARNFIELDS, Newtown.

Plans and Specifications, prepared by the County Architect, can be obtained from the undersigned, to whom sealed Tenders, in the envelopes provided, should be sent not later than MONDAY, 8th August, 1960.

P. E. WHITE,
Clerk to the Authority.

County Offices,
Welshpool.
5th July, 1960.

CONTRACTS

STIRLING COUNTY COUNCIL.

TENDERS are invited for the CONSTRUCTION of a NEW BRIDGE over the GLAZERT WATER and the APPROACHES connecting with the CALLANDER-KIRKINTILLOCH ROAD, B.822, at the east end of Lennoxtown.

The Bridgeworks comprise Reinforced Concrete Superstructure with Mass Concrete Abutments. River span 50ft.; width between parapets 32ft.; and total length of approaches 120yd.

Contract documents can be obtained from the County Road Surveyor, Causewayhead School, By Stirling, on payment of a deposit of Three Pounds (£3), by cheque made payable to Stirling County Council. The deposit will be refunded if a bona-fide Tender is submitted and not subsequently withdrawn. Drawings may be inspected by appointment at the County Road Surveyor's Office.

Tenders must be submitted, in a sealed registered envelope marked "Tender for Muckcroft Bridge," addressed to the County Clerk, Viewforth, Stirling, to arrive not later than 12 Noon on SATURDAY, 13th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. D. KENNEDY,
County Clerk.

County Offices,
Viewforth,
Stirling.
8th July, 1960.

BOROUGH OF ROMFORD.

PRIVATE STREET WORKS.

TENDERS are invited for the CONSTRUCTION of the FOLLOWING:

(1) Parkland Avenue (Part) and Lake Rise (Part) Private Street Works, consisting of 1,400 sq. yd. of Bitumen Macadam on Hardcore Carriageway, together with Drainage, Kerbing, Paving, Lighting, and incidental works.

(2) Parkway (Part) Private Street Works, consisting of 300 sq. yd. of Bitumen Macadam on Hardcore Carriageway, together with Drainage, Kerbing, Paving, Lighting, and other incidental works.

Contract documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Romford, Essex, on deposit of a cheque for Two Guineas.

Tenders must be delivered to the TOWN CLERK, in the endorsed envelopes provided, by 5th AUGUST.

BOROUGH OF SOUTHALL.

SOUTHERN SOIL RELIEF SEWER.

The Borough of Southall, under the direction of their Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, of 67 Tufton Street, Westminster, S.W.1, propose to carry out the ABOVE WORKS, involving approx. 1,700yd. of 24in. dia. CONCRETE PIPE in Heading, together with Manholes in Pre-cast Concrete Segmental Construction. The route of the sewer lies within a built-up area.

The Corporation invite contractors with wide experience in this class of work, and who would be interested in submitting a Tender, to forward their names and addresses, together with a brief synopsis of their experience, to the Borough Engineer, Town Hall, Southall, Middlesex, and a copy to the Consulting Engineers, by First Post on WEDNESDAY, 27th July, 1960.

Tender documents will be issued to selected contractors by the Consulting Engineers during the middle of August.

J. S. SYRETT,
Town Clerk.

7-9 South Road,
Southall, Middx.

PORTHCAWL URBAN DISTRICT COUNCIL.

MAIN AREA DRAINAGE.

CONTRACT NO. 9.

The Council invites TENDERS for the CONSTRUCTION of approx. 2,200 lin. yd. of 9in. dia. and 630 lin. yd. of 12in. dia. CONCRETE PIPE SEWER, together with the Construction of Manholes and other appurtenant works, in accordance with the Drawings and a Specification prepared by the Council's Consulting Engineers, MESSRS. JOHN TAYLOR AND SONS, Artillery House, Artillery Row, Victoria Street, Westminster, S.W.1.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Consulting Engineers upon payment of Five Pounds (cheque only, made payable to the Council) which will be returned on receipt of a bona-fide Tender.

The Drawings may be inspected at the Offices of the Consulting Engineers or at the Office of the Council's Engineer, Council Offices, Porthcawl.

Tenders, in plain sealed envelopes endorsed "Tender—Western Area Drainage—Contract No. 9," addressed to the undersigned at his Office, must be received on or before Noon on MONDAY, 15th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

(Signed) D. EDWARD SMITH,
Clerk to the Council.

Council Offices,
Porthcawl, Glam.

WADEBRIDGE RURAL DISTRICT COUNCIL.

STREET LIGHTING.

TENDERS are invited for the SUPPLY and INSTALLATION of EQUIPMENT as FOLLOWS:—

33 400-Volt Colour-corrected Mercury Discharge Lamps, mounted at 25ft., for Trunk Road A.39 at Wadebridge, and Six similar Lamps on The Platt, Wadebridge.

Specifications and Bill of Quantities, together with Tender Form, may be obtained from the Surveyor, Mr. A. E. BEWES, F.R.I.C.S., Council Offices, Wadebridge.

A deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender, is required.

Tenders, in sealed envelopes, endorsed "Tender—Street Lighting," to be sent to the undersigned not later than MONDAY, 8th August, 1960.

W. E. BLACKWELL,
Clerk to the Council.

Council Offices,
Wadebridge.

BRICKLAYING LABOUR only SUB-CONTRACTOR REQUIRED on large contract in Yorkshire. Preferably gangs of six or eight.—For rates and conditions, write Box X.2324, "The Contract Journal."

For Contracts received too late for classification see page 181

APPOINTMENTS VACANT

NATIONAL COAL BOARD.

EAST MIDLANDS DIVISION.

CIVIL / STRUCTURAL ENGINEERS: Four are REQUIRED on the permanent staff of the Chief Civil Engineer at 69 Lower Parliament Street, Nottingham. Salary within the range £900-£1,400, according to qualifications and experience.

The duties involve the design and execution of large colliery projects and reconstruction schemes. Applicants should have some experience of one or more of the following works, preferably for industrial projects: Steel or reinforced concrete design and construction, industrial building construction, drainage and sewerage, railway sidings, and their ancillary services.

Candidates should be Corporate Members of the Institution of Civil or Structural Engineers.

CIVIL/STRUCTURAL ENGINEERING ASSISTANTS: Salary within the scale £600-£900, or within the range £750-£1,150, according to qualifications and experience. The duties will involve assistance in the design and detailed work scheduled above.

Candidates should preferably be Graduates of the Institution of Civil or Structural Engineers, or should be making good progress towards obtaining a professional qualification.

Applications, giving age and full details of qualifications and experience, should be addressed to DIVISIONAL CHIEF STAFF OFFICER, National Coal Board, East Midlands Division, Sherwood Lodge, Arnold, near Nottingham.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF DIRECT WORKS MANAGER.

APPLICATIONS are invited for the ABOVE POST, and candidates should be between 35 and 50 years of age, should have good administrative ability and practical experience and be members of either the Inst.Mun.B.M., the R.I.C.S., the I.S.E., the I.O.B., or similar Association, or have had considerable practical experience with a large public authority or public works contractor in the relevant branches of the building industry. The salary will be in accordance with A.P.T. Grade IV (£1,065-£1,220 per annum), or £1,375 per annum, and both the commencing salary and the grade will be commensurate with the successful candidate's ability, experience and qualifications.

The appointment will also be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and the passing of a medical examination.

The County Council are prepared to grant a lodging allowance of 35s. per week to married applicants maintaining a home outside the geographical county, for a period of six months; also second-class rail travel home every second month during the initial six months. The Council are also prepared to give consideration to the granting of financial assistance in appropriate cases towards removal expenses.

The successful candidate will be required to own and use a car, for which payment will be made on the Essential Car Users' Scale. The Council has a scheme for loans towards the purchase of motor vehicles.

Forms of Application, which must be returned by WEDNESDAY, 27th July, 1960, may be obtained from the County Architect, Green Hall, Lichfield Road, Stafford.

T. H. EVANS,
Clerk of the County Council.

COUNTY BOROUGH OF DONCASTER.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE POSITION from persons with a good all-round experience in civil engineering works.

The salary, £815 per annum, is under review at the present moment. The post is superannuable, although not on the permanent establishment, and the successful candidate will be required to pass a medical examination.

Applications, giving details of experience and quoting the names of two referees, to be forwarded to the Borough Surveyor and Water Engineer, 2 Priory Place, Doncaster, so as to be received not later than SATURDAY, 23rd July, 1960.

H. R. WORMALD,
Town Clerk.

1 Priory Place,
Doncaster.
4th July, 1960.

BOROUGH OF EALING.

TEMPORARY CLERK OF WORKS, £825 per annum. Miscellaneous Conditions of Service. To supervise external painting contracts and flat conversions.

Forms of application and full particulars from Borough Engineer, Town Hall, Ealing, W.5.

Closing date 18th JULY, 1960.

E. J. COPE-BROWN,
Town Clerk.

BOROUGH OF TOTTENHAM.

RESIDENT ENGINEER REQUIRED. Salary £1,265 p.a. to £1,420 p.a., inclusive. For supervision of construction of large-diameter concrete sewers, reinforced concrete culverts and manholes and sewer in tunnel.

Application Form and particulars from BOROUGH ENGINEER, Town Hall, N.15 (C).

Applications to be delivered by THURSDAY, 28th July, 1960.

BOROUGH OF MANSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING VACANCIES in the Borough Engineer and Surveyor's Department:

(a) Two Senior Engineering Assistants—A.P.T. Grade IV (£1,065-£1,220).

(b) One Engineering Assistant—Special Grade (£785-£1,070).

(c) One Tracer-Draughtsman (Architectural and Civil Engineering) — General Division, £210-£595.

Commencing salary according to experience.

Applications, stating age, training, qualifications, present and past appointments, experience, and names of three referees, should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, appropriately endorsed, not later than TUESDAY, 26th July, 1960.

Applicants for (a) must be Associate Members of the Institution of Civil Engineers or the Institution of Municipal Engineers, and for (b) must be suitably qualified.

The Council prefer that the successful applicant should live within the Borough after appointment. A house on service tenancy is available.

A. C. SHEPHERD,
Town Clerk.

APPOINTMENTS VACANT

KENT COUNTY COUNCIL.

TECHNICAL PURCHASING ASSISTANT REQUIRED, with experience in one or more of the following: Ironmongery, Building Supplies, Domestic Equipment and Materials, Public Works Equipment and Materials.

Salary within Scale £880-£1,065.

Further particulars, including list of duties, from **COUNTY SUPPLIES OFFICER,** Sandling Road, Maidstone, to whom completed applications must be submitted without delay.

METROPOLITAN BOROUGH OF ISLINGTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited from persons not more than 50 years of age for the **FOLLOWING APPOINTMENTS** on the Permanent Staff:

Three Engineering Assistants—Grade A.P.T. IV (£1,065-£1,220 p.a.) plus appropriate London Weighting.

Applicants should have the Examination of the Institute of Civil Engineers or Municipal Engineers, or other appropriate qualification, and be suitably experienced.

Application Forms, returnable by First Post on **MONDAY,** the 15th August, 1960, obtainable from **MR. C. N. COWNEY,** Borough Engineer and Surveyor, Town Hall, Upper Street, N.1.

H. DIXON CLARK,
Town Clerk.

BOROUGH OF ROWLEY REGIS.

APPOINTMENT OF BUILDING INSPECTOR.

APPLICATIONS are invited for the **ABOVE APPOINTMENT** in the Department of the Borough Engineer and Surveyor at a salary in accordance with A.P.T. Grade II (£765-£880 per annum). Suitable housing accommodation will be made available to the successful applicant if required.

Applicants should preferably hold a Building Inspector's Certificate and have experience in Building By-law and Town Planning administration.

Applications, with copies of two recent testimonials, should be sent to the Borough Engineer and Surveyor at the address below not later than **MONDAY,** 25th July, 1960.

J. HILTON,
Town Clerk.

Municipal Buildings,
Old Hill, Staffs.
July, 1960.

SMALLBURGH RURAL DISTRICT COUNCIL.

WATER SUPPLY—CONTRACT NO. 7.

RESIDENT ENGINEER.

APPLICATIONS are invited for the **APPOINTMENT** of a **RESIDENT ENGINEER** to supervise the laying of approx. 33 miles of small diameter asbestos-cement water mains throughout the Rural District.

The appointment is expected to last for about 18 months, and the salary offered is at the rate of £1,000 per annum plus £150 per annum subsistence allowance and travelling allowance, whilst actually engaged on the contract, in accordance with the National Joint Council's Essential User Scale applicable to a car not exceeding 10-h.p.

The successful applicant will work under the direction of the Council's Consulting Engineers and will be required to take up duty during September, 1960.

Applications, giving details of age, experience and qualifications, together with the names and addresses of two persons to whom reference can be made, should be forwarded to reach me not later than **FRIDAY,** 22nd July, 1960.

ALAN E. CRISP,
Clerk of the Council.

Council Chambers,
Stalham,
Norwich,
Norfolk. NOR 35Z.
12th July, 1960.

OUNDLE AND THRAPSTON RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the **APPOINTMENT** of **ARCHITECTURAL ASSISTANT** in the Architect's Department of the above Authority, at a salary within A.P.T. Grade I-II (£610-£880), commencing salary to be fixed having regard to the qualifications and experience of the successful candidate.

The appointment will be for a period of not less than three years and be subject to: (a) The National Scheme of Conditions of Service; (b) the provisions of the Local Government Superannuation Acts, 1937 to 1953; (c) a satisfactory medical examination; and (d) termination by one month's notice on either side.

Preference will be given to applicants who have passed the R.I.B.A. Intermediate Examination and are experienced in housing.

Consideration will be given to the provision of housing accommodation if required.

Applications, with the names of two referees, to be sent to me by the 25th JULY, 1960.

H. H. HASSALL,
Clerk of the Council.

Council Offices,
Midland Road,
Thrapston,
Kettering.

MARLBOROUGH AND RAMSBURY RURAL DISTRICT COUNCIL.

RESIDENT ENGINEER.

APPLICATIONS are invited for the immediate **APPOINTMENT** of a **RESIDENT ENGINEER** to supervise sewerage contracts under the direction of the Council's Consulting Engineers, **MESSRS. JOHN TAYLOR AND SONS,** Artillery House, Westminster, London, S.W.1.

The appointment is of a temporary nature and is expected to last for several years. The salary will be at the rate of £1,200 per annum.

The appointment will be subject to the following: (a) The passing of a medical examination; (b) the Scheme of Conditions of Service of the National Joint Council; (c) the appointment to be terminated by one month's notice on either side.

Applications, endorsed "Resident Engineer," stating age, qualifications and experience, together with copies of two recent testimonials, must be delivered to the undersigned not later than **SATURDAY,** the 30th July, 1960.

Canvassing will disqualify.

(Signed) A. G. HUNT,
Clerk of the Council.

Council Offices,
London Road,
Marlborough, Wilts.

APPOINTMENTS VACANT

HAMPSHIRE COUNTY COUNCIL.

SENIOR BRIDGE ENGINEER REQUIRED for pensionable post in County Surveyor's Department, Scale "A" (£1,245-£1,420).

Applicants must be suitably qualified and have considerable experience in the design and preparation of working drawings for bridge construction schemes and their supervision.

Separation allowance and assistance with removal expenses in approved cases.

Application Forms (send s.a.e.), returnable by 21st JULY, from the **CLERK OF THE COUNTY COUNCIL,** The Castle, Winchester.

HAMPSHIRE COUNTY COUNCIL.

ROAD FOREMAN REQUIRED by the County Surveyor's Department, for work in the Alton Division, Misc. Grade IV (£590-£650). Candidates should be not more than 45 years of age and must have had first-class experience in the handling of men and road construction work.

A motor van will be provided and maintained by the County Council.

The post is pensionable and subject to a satisfactory medical report. In approved cases the County Council assists with removal and separation allowances.

Alternatively, applications from men, preferably with some experience of road construction work, for training as Road Foreman would be considered, starting at £10 2s. 1d. per week.

Application Forms may be obtained from the **COUNTY SURVEYOR,** The Castle, Winchester, and must be returned by the 23rd JULY, 1960.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ROADS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited for the **FOLLOWING APPOINTMENTS:**

(a) Senior Assistant Engineer (Bridges)—Salary Scale J.N.C. "B" (£1,255-£1,485). The successful candidate will be responsible for all bridge design, construction and maintenance, including motorway bridges. Applicants must be suitably qualified and have had considerable experience in bridge design, construction and maintenance. A modern house will be available for the successful candidate.

(b) Senior Engineering Assistants — Salary Grades A.P.T. V (£1,220-£1,375); Special (£785-£1,070).

(c) Laboratory Assistant—Salary Grade Special (£785-£1,070). A modern house is available for the successful candidate.

(d) Engineering Assistants — Salary Grades A.P.T. I (£610-£765); A.P.T. II (£765-£880).

(e) Surveying Assistants and Draughtsmen—Salary Grades Misc. III (£525-£590); Misc. IV (£590-£650).

Applicants for senior posts must be fully qualified and have had experience in road and/or bridge design and construction.

All appointments are subject to the provisions of the Local Government Superannuation Acts, 1937/53.

The County Council will, for a period of six months, grant a lodging allowance of 35s. per week and second-class return railway fare home every two months during that period to the successful candidate, if married and maintaining a home outside the geographical county. The Council will also consider granting financial assistance towards any expenses reasonably incurred in connection with the removal of a successful applicant's furniture and household goods.

Canvassing of members of the Council or any Committee of the Council, directly or indirectly, will be a disqualification.

Applications, on the appropriate forms, which can be obtained from the County Surveyor, County Buildings, Stafford, should reach him by not later than 10 a.m. on **WEDNESDAY,** the 3rd August, 1960.

T. H. EVANS,
Clerk of the County Council.

County Buildings,
Stafford.

WESTMORLAND COUNTY COUNCIL.

APPLICATIONS are invited for the **POST** of **COUNTY SURVEYOR AND BRIDGEMASTER.** The salary scale is £1,925-£2,195, the starting salary to be according to experience and qualifications.

The appointment is subject to the Conditions of Service of the Negotiating Committee for Chief Officers.

Full particulars may be obtained from me, and applications, on the official form, must reach me by 30th JULY, 1960.

K. S. HIMSWORTH,
Clerk of the Council.

County Hall,
Kendal.

CITY OF CARLISLE WATERWORKS.

RIVER EDEN SCHEME—STAGE II.

APPOINTMENT OF CLERKS OF WORKS.

APPLICATIONS are invited from suitably experienced candidates for the **POSTS** of **CLERK OF WORKS** to supervise the laying of cast-iron mains and/or the construction of a reinforced concrete reservoir under the direction of an Assistant Engineer.

The appointment will be for a period of about 12 months, subject to satisfactory service, at a salary of £850 per annum.

Applications should reach the Council's Consulting Engineers, **MESSRS. ROFE AND RAFFETY,** 9 Brewer's Green, Buckingham Gate, London, S.W.1, not later than **FRIDAY,** 22nd July, 1960.

Appointments will be subject to one month's notice and such other conditions of service as are made known to the candidate appointed.

H. D. A. ROBERTSON,
Town Clerk.

BOROUGH OF PORT TALBOT.

ENGINEERING ASSISTANTS.

APPLICATIONS are invited for the **APPOINTMENT** of **ENGINEERING ASSISTANTS** (Salary Grade A.P.T. II—£765 rising to £880 per annum). Commencing salaries according to qualifications and experience.

The Council will give consideration to the provision of housing accommodation.

Applications, stating age, qualifications, present and previous appointments, details of experience, and names of two referees, to be received by the undersigned not later than 22nd JULY, 1960.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot.
5th July, 1960.

APPOINTMENTS VACANT

CENTRAL ELECTRICITY GENERATING BOARD.

DESIGN AND CONSTRUCTION DEPARTMENT.
HEADQUARTERS, LONDON, S.E.1.

CIVIL ENGINEERING BRANCH.

SENIOR ASSISTANT ENGINEER REQUIRED in the Civil Engineering Branch concerned with the design and construction of power stations and investigations into associated civil engineering matters.

Candidates should have a wide experience in the design and construction of heavy civil engineering works and specialist knowledge of soil mechanics and foundation design. Recent experience in power station design and construction will be an advantage, and preference will be given to those who are Corporate Members of the Institution of Civil Engineers.

Salary within the range £1,695-£2,240 p.a.

Applications, stating age, qualifications, experience, present position and salary, to the **PERSONNEL OFFICER,** 24/30 Holborn, London, E.C.1, by 2nd **AUGUST.** Envelopes should be marked "Confidential, Ref. C.I.261."

LONDON COUNTY COUNCIL.

ARCHITECTS, LANDSCAPE ARCHITECTS, BUILDING SURVEYORS AND QUANTITY SURVEYORS.

In the L.C.C. Parks Department the professions work in association on the design, construction and improvement of parks and open spaces. Opportunities for specially interesting collaboration between architects and landscape architects. Up to £1,250 a year for qualified staff, or to £950 for those in process of qualifying.

Apply to **CHIEF OFFICER** (A1/CJ/1813/7), L.C.C., Parks Dept., County Hall, S.E.1 (WATerloo 5000, Ext. 8076).

SOMERSET COUNTY COUNCIL.

ASSISTANT DIVISIONAL SURVEYORS (3).

APPLICATIONS are invited from suitably qualified Engineers for the **ABOVE APPOINTMENTS** at a salary within A.P.T. I (£610-£765) or Special Grade (£785-£1,070 per annum). The starting salary for exceptional candidates could be £950 per annum.

These appointments offer a good opportunity for young Engineers to obtain practical experience of modern plant and methods of road construction, including work study and job planning.

Superannuable. Car allowance.

Full particulars and forms from the undersigned. Closing date—3rd **AUGUST** 1960.

J. H. H. WILKES,
County Surveyor.

County Hall,
Taunton.

COUNTY BOROUGH OF SOUTHPORT.

APPOINTMENT OF BOROUGH ENGINEER.

APPLICATIONS are invited for the **APPOINTMENT** of **BOROUGH ENGINEER,** at a salary within the scale recommended by the Joint Negotiating Committee for Chief Officers of Local Authorities having a population between 75,000 and 100,000 (at present £2,127 10s. to £2,462 10s. p.a.).

Applicants must be Corporate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, and must have considerable experience in municipal engineering. The appointment will be subject to three months' notice on either side.

Applications, stating age, qualifications, present and past appointments, and details of experience, together with the names and addresses of two persons to whom reference may be made, must be forwarded to the undersigned, endorsed "Borough Engineer," not later than First Post on 29th JULY, 1960.

Canvassing will disqualify.

R. EDGAR PERRINS,
Town Clerk.

Town Hall,
Southport.

BOROUGH OF WIMBLEDON.

WORKS SUPERINTENDENT REQUIRED, Grade A.P.T. III salary (£800-£1,065 p.a.), plus London Weighting.

Applicants should have had considerable experience in housing construction and maintenance, the maintenance of public buildings, and control and management of building labour.

Forms of Application, from **BOROUGH ENGINEER AND SURVEYOR,** Town Hall, Wimbledon, S.W.19, returnable by **TUESDAY,** 2nd August, 1960.

CITY OF MANCHESTER.

APPLICATIONS invited from persons with suitable qualifications and experience of the building trade for the **POSITION** of **DIRECTOR** of the **MANCHESTER CORPORATION DIRECT WORKS ORGANISATION.** Salary £3,500/£4,100 per annum.

Details of appointment and Application Forms (returnable by 28th JULY, 1960) from the **TOWN CLERK,** Town Hall, Manchester, 2.

MOWLEM PAVING CO., LTD., REQUIRE additional **SUPERVISORS** for asphalt surfacing contracts. Duties will be to control and organise the work of road gangs operating in the London area. Experienced and practical men are invited to apply in writing, with details of training, previous positions, age, etc., to 19 Grosvenor Place, S.W.1. A good salary commensurate with experience is envisaged, and a car is provided, or allowance paid. A pension scheme operates after probationary period. All replies treated as confidential.

SENIOR AGENT/ENGINEER REQUIRED by civil engineering contractors for several medium-sized main drainage and roadwork contracts. A salary range of £1,300-£1,500 p.a. will be offered to applicant of proven ability, possessing initiative and drive. Permanent and progressive post, with superannuation scheme in operation.—Write, in confidence, stating age, full details of experience and past employers, etc., to Box V.2127, "The Contract Journal."

QUANTITY SURVEYOR. — An excellent opportunity exists with a well-known firm of building and civil engineering contractors for a **SENIOR SURVEYOR** with wide experience in the building and civil engineering industry, and preferably qualified, to take charge of all quantity surveying work on a long-term building and civil engineering contract in Cumberland. Excellent prospects with good salary and entry into superannuation scheme after a probationary period. Applications, giving details of age, training and experience, will be treated in strictest confidence. Write Box V.2183, "The Contract Journal."

JUNIOR ENGINEER REQUIRED by building and civil engineering contractors.—Please write, giving full particulars of experience, salary required, etc., to: **BORDER ENGINEERING CONTRACTORS, LTD.,** 125 Queen Street, Whitehaven.

APPOINTMENTS VACANT

COMPTOMETER OPERATORS.—A national contracting organisation carrying out motorway construction in Worcestershire has vacancies for COMPTOMETER OPERATORS at the main project office, located near Worcester. These positions provide an opportunity to earn a good salary and to work under congenial conditions in a pleasant country district. In addition, a tax-free subsistence allowance will be paid to successful applicants residing elsewhere who require temporary living accommodation near the site. — Reply fully, with details of age, training and experience, to the Accountant, A. MONK AND COMPANY, LTD., Padgate, Warrington.

SENIOR QUANTITY SURVEYOR REQUIRED for employment with Cumberland builders. Experience of final accounts and estimates. House available. Write, giving full details of experience and qualifications, and state salary required, to Box V.1715, "The Contract Journal."

SIR ALFRED McALPINE AND SON, LTD.

Urgently REQUIRE experienced CIVIL ENGINEERS for contracts in South Lancs. and Cheshire. Good prospects and staff pension scheme. — Apply, in writing, stating age, experience and salary required, to:

SIR ALFRED McALPINE AND SON, LTD.,
Hooton, Wirral, Cheshire.

ROLLED ASPHALT FOREMAN REQUIRED for London work only. Permanent staff job with top wages and conditions for first-class man. MOWLEM PAVING CO., LTD., 263 Tunnel Avenue, Greenwich, S.E.10. Telephone: GREenwich 2122.

SUB-AGENTS.—Experienced Sub-Agents REQUIRED for major civil engineering and building projects in any part of Great Britain. Excellent prospects, pension scheme and life assurance.—Apply, in writing, stating age, qualifications, experience and salary required, to: ROBERT M. DOUGLAS (CONTRACTORS), LTD., 395 George Road, Erdington, Birmingham, 23.

SITE ENGINEERS.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton, have several interesting vacancies in the Midlands area for young ENGINEERS, age range 20 to 30 years, for setting out and external services on a variety of contracts. Permanent positions, with prospects for rapid promotion and a good salary, etc., will be paid to the selected applicants. Written applications should state training and experience, etc.

SENIOR GENERAL FOREMAN.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton, have several vacancies in the Midlands area for top level GENERAL FOREMEN for building contracts up to £¼m. in value. Previous recent experience necessary with similar firms and size contracts. The positions are permanent to selected applicants and carry a good salary and allowance. Written applications should state age, training, experience and present salary and allowances.

TAYLOR WOODROW CONSTRUCTION, LTD.

Due to the expansion of the mechanical installation department, applications are invited for site appointments in the United Kingdom from:

AGENTS
MECHANICAL ENGINEERS
INSTRUMENT ENGINEERS
FOREMEN PIPE and INSTRUMENT FITTERS
FOREMEN MILLWRIGHTS and ERECTORS

Applicants must have had at least five years' experience of refinery, chemical plant and large industrial installations. Opportunities for tours overseas may occur.—Write, giving brief details of personal history, to:

Personnel Manager,
TAYLOR WOODROW CONSTRUCTION, LTD.,
345 Ruislip Road, Southall, Middlesex.

EXPERIENCED SITE ENGINEERS/SURVEYORS REQUIRED by civil engineering contractors based in Hull. Fully experienced setting out, measuring, valuations and final accounts, and able to work with minimum supervision. Pension and life assurance scheme in operation. Excellent prospects for right man.—Write, giving full details, in strictest confidence, to Box V.2268, "The Contract Journal."

ENGINEER/AGENT REQUIRED for sewerage contract near Stafford.—Write, stating experience, and salary required, to Box V.2255, "The Contract Journal."

A VACANCY exists for a QUANTITY SURVEYOR between the ages of 25 and 35 to act as ASSISTANT to the Senior Surveyor on a long-term civil engineering contract in north-east England. Applicants must have had a sound training and background, with a number of years' experience with reputable employers. This appointment will carry a good salary, and will provide excellent prospects for advancement within an expanding company.—Apply in the first instance, giving details of age, past experience and present salary, to J. D. Gaunt, Esq., THE DEMOLITION AND CONSTRUCTION CO., LTD., Teesport, Middlesbrough. All applications will be acknowledged and will be treated in strict confidence.

QUALIFIED CIVIL ENGINEERS

Under 30 are invited to apply for site appointments in an expanding group of companies with world-wide interests. Excellent opportunities for men wishing to broaden their experience. — Please write, quoting W.113, to:

The Personnel Officer,
THE CEMENTATION CO., LTD.,
20 Albert Embankment, London, S.E.11.

SIR LINDSAY PARKINSON AND CO., LTD., require for major contract in Southern England, one SENIOR SUB-AGENT. Applications will be considered from qualified engineers who have worked in a similar capacity on large-scale civil engineering contracts, and who have an extensive background of site experience. This is a career appointment, with attractive salary and promotion prospects in a rapidly expanding organisation.—Apply in writing in strict confidence to Civil Engineering Director, Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, London, S.E.1.

SITE AGENTS and GENERAL FOREMEN. — SIR LINDSAY PARKINSON AND CO., LTD., invite applications for the above positions.—Applicants, who must be fully experienced in carrying out major building contracts of all types should forward all details to Building Director, Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, London, S.E.1.

APPOINTMENTS VACANT

TECHNICAL ORDER SURVEYOR. — Applications invited from young experienced SURVEYORS with H.N.C. in building, or L.I.O.B., for large contracts in the Midlands area, to take off and order materials, prepare schedules, phase deliveries, etc. A good salary will be paid to selected applicants, and the positions are progressive.—Written applications should state full details of training and experience to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

OUTSIDE MANAGER REQUIRED by medium-sized firm of builders in Somerset, to handle contracts and general outside work. Sound knowledge of all trades essential. Age not over 40. Good salary to right man.—Write, stating age, education and experience, to Box V.2206, "The Contract Journal."

AGENT

REQUIRED for installaiton of eight miles of 43in. o.d. and six miles of 54in. o.d. steel mains with Viking-Johnston coupling joints, including river crossings and other ancillary works, between Beattock and Lanark, Southern Scotland.—Apply:

BORDER ENGINEERING CONTRACTORS, LTD.,
125 Queen Street, Whitehaven.

W. AND C. FRENCH, LTD., REQUIRE Two GENERAL FOREMEN CARPENTERS, time-served, with specialised experience of shuttering and overall control for reinforced concrete construction of water-retaining structures. Both vacancies offer staff benefits. Applications will only be considered from persons who have supervised large-scale contracts. Apply, in writing, stating age, experience, salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex, quoting Ref. 426.

JAMES MILLER AND PARTNERS, LTD., REQUIRE a SENIOR PLANNING ENGINEER. Applicants must be experienced in contract planning, method statements and monthly stage programmes, and must have the ability to supervise, encourage and train junior planning staff. Experience of work study would be an advantage.—Full details to Pump Lane, Hayes, Middlesex.

QUANTITY SURVEYORS.—Applications invited from fully trained and experienced SURVEYORS who have had recent years' experience with C.E. and B. contractors in valuations and final account work for large contracts. The appointments will be in Wolverhampton as a base, and the contracts will be in the Midlands area, mostly within daily travel distance. A good salary will be offered and there is a pension scheme.—Written applications should state age, training, experience and present salary, to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

AN ARCHITECTURAL OR BUILDING DRAUGHTSMAN

Is REQUIRED by W. H. ALLEN SONS AND CO., LTD., for their works engineers department. Experience of architectural and civil engineering design is necessary, and it is desirable that applicants should have had some basic technical training. The company offers excellent conditions of service, a contributory pension and life assurance scheme, and a comprehensive range of welfare and recreational amenities. Assistance will be given towards expenses involved in moving to the Bedford area, where appropriate. Applications should be made in writing, giving details of age, past experience and present salary, to:

The Personnel Manager (Ref. 1604C/11).
W. H. ALLEN SONS AND CO., LTD.,
Queens Engineering Works, Bedford.

ESTIMATOR. — D. B. EVANS (BILSTON), LTD., REQUIRE a capable BUILDING ESTIMATOR, with wide experience in tendering for major building works. This post is permanent and pensionable. A car allowance will be paid and assistance given with housing, if required. — Apply, in writing, in strict confidence, stating age, training, qualifications, experience and salary required, to: D. B. Evans (Bilston), Ltd., Oxford Street, Bilston, Staffs.

SITE ENGINEER REQUIRED by firm of civil engineering contractors operating in and around London. Excellent opportunity for young man with a background of general civil engineering works. Permanent progressive position. Pensionable. Good salary offered to right man.—Apply to: RUDDOCK AND MEIGHAN, LTD., Burford House, Harrow View, Wealdstone, Middlesex.

ARCHITECTURAL DRAUGHTSMAN for work on large-scale housing development. Work will include the preparation of detailed drawings, and preference will be given to applicants who have previous experience in this type of work.—Apply Mr. F. R. Coote, Office Manager, T.W. HOMES, LTD., Western House, Western Avenue, Ealing, London, W.5.

SERVICE MANAGER

An Irish company, with headquarters in Dublin, holding agency for world-renowned crawler tractors, has a vacancy for a SERVICE MANAGER. The position calls for a man who has a background in the servicing of earthmoving equipment and is capable of fully organising and further developing a department catering for workshop and field service. The appointment is a senior one, carrying commensurate conditions of employment and salary and participation in pension scheme.—Applications, stating age, education, experience, present salary, and enclosing copies of references, in confidence, to:

BOX V.2312, "THE CONTRACT JOURNAL."

SITE PLANNING AND PROGRESS ENGINEER: A national firm of chemical engineering contractors REQUIRE a Site Planning and Progress Engineer. Age 25-35. Previous planning experience desirable but not essential. Duties would primarily be on site but would involve liaison with head office. Pension scheme.—Applications in writing, giving details of age, qualifications and previous experience, to Box V.2273, "The Contract Journal."

F. J. C. LILLEY (CONTRACTORS), LTD., have vacancies for SENIOR and JUNIOR CIVIL ENGINEERS on tunnel contracts in Blackpool and London.—Application should be made to the Assistant General Manager, Great Cambridge Road, By Church Street, London, N.9.

ROAD FOREMAN (overseas): Capable ROAD FOREMAN REQUIRED by well-known contractor for overseas contract. Experience of cement stabilised construction or bituminous black top work essential. Good pay for keen man able produce results.—Write Box V.2254, "The Contract Journal."

APPOINTMENTS VACANT

PERSONNEL ASSISTANT.—Applications invited from young men with university or public school education and some recent experience in personnel management with a large firm for a Midlands civil engineer contractor's head office. Duties will consist of dealing with staff applications, labour requirements, welfare, statistics and other administrative matters.—Written applications, stating fully age, education, training and experience, in confidence, to Box V.2225, "The Contract Journal."

PLANT HIRE MANAGER.—Applications are invited for the position of Plant Hire Manager. Applicants must be thoroughly experienced in all phases and be capable of building up department. This position carries a most attractive salary with bonus for the right man and directorship after probationary period. Non-contributory superannuation scheme. Car supplied or allowance paid.—Write, giving full details, to Box V.2227, "The Contract Journal."

EXPERIENCED BONUS AND COSTING SURVEYORS

Senior and Assistant, REQUIRED for civil engineering and roadwork contracts. Mobility essential.—Write, stating age, previous experience and salary required, to:

Personnel Officer,
A. MONK AND CO., LTD.,
Padgate, Warrington, Lancs.

CIVIL ENGINEERS REQUIRED for contract site work and design, etc., by London firm of civil engineering contractors with plans for expansion. Applicants should be aged 25/30, with B.Sc. or equivalent. Other requirements are: A sound knowledge of the industry; enthusiasm; and a readiness to take on responsibility. There are excellent opportunities for advancement, and there is a pension scheme operating within the company.—Write, giving qualifications, full history of career, previous employers and salary required, to Box V.2240, "The Contract Journal."

BONUS SURVEYOR REQUIRED for contracts in Coventry and Birmingham area. Experienced in taking off quantities; preplanning an advantage. Tradesmen will be considered for this post. Good salary, plus travelling expenses, non-contributory pension scheme. Interview in London or Coventry.—Write, giving full details, to Box V.2234, "The Contract Journal."

CIVIL ENGINEER REQUIRED as SITE AGENT. Experience of sewer and road construction essential.—Applications, giving full details, qualifications and experience, to the Secretary, JUDKINS (COATED MACADAM), LTD., Tuttle Hill, Nuneaton.

DRAUGHTSMAN

Leading specialist building sub-contractors REQUIRE DRAUGHTSMAN. Good knowledge building construction essential. Capable of working on own initiative. Permanent, progressive superannuated position. Good salary for right man. Holiday commitments honoured. Write or 'phone:

THE ROM RIVER CO., LTD.,
100 Stewarts Road, S.W.8.
Telephone: Macaulay 6622.

SIR LINDSAY PARKINSON AND CO., LTD., invite applications for the following vacancies in their Great Ouse Contract: Two SENIOR SITE ENGINEERS. Applicants must have been employed for at least 10 years on site by substantial contractors and have sound experience of the construction of cofferdams and reinforced concrete. For one vacancy particular knowledge of formwork will be considered an advantage and, for the other, sound experience in the preparation of certificates is required. Attractive salaries and excellent prospects of promotion will be offered to suitable candidates, who should preferably be qualified.—Apply in writing to Civil Engineering Director, Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, S.E.1.

FOOTWAY LAYERS WANTED for North London area. Guaranteed basic wage plus bonus. Only first-class men need apply.—'Phone CANonbury 1080.

JUNIOR SITE OFFICE CHECKER/CLERK in Wembley/Ealing area. State experience, if any, and salary required. — Write Box V.2270, "The Contract Journal."

SHEPHERD HILL AND CO., LTD., REQUIRE AGENTS, ENGINEERS and SURVEYORS. Permanent positions with excellent prospects for applicants of proved experience. — Written applications, with full details, to: Shepherd, Hill and Co., Ltd., 25 Central Chambers, W.5.

PLANT ENGINEER

REQUIRED by J. JARVIS AND SONS, LTD., to augment their plant department. Mechanical engineering qualifications, with workshop experience and knowledge of contractors' plant, essential.—Apply, in writing, stating age, training, qualifications, experience and salary expected, to:

J. JARVIS AND SONS, LTD.,
239 Vauxhall Bridge Road, London, S.W.1.

A CIVIL ENGINEER is REQUIRED to undertake management of contracts from the initial inquiry to completion of the final certificate. Duties will include planning, organisation and operation of contracts, and in due course consideration will be given to establishing the successful applicant at a fixed base, from which he will be responsible for the running and supervision of a series of contracts. Applicants should have had wide experience. Preference will be given to a qualified man. Salary in accordance with ability. Details of age, qualifications, previous experience and positions held should accompany application. — Write to Box V.2249, "The Contract Journal."

VACANCIES exist for SITE FITTERS conversant with all types of civil engineering plant, in particular concrete mixing plant. A thorough knowledge of diesel engines essential.—Apply Chief Mechanical Engineer, AMALGAMATED ASPHALTE COMPANIES, LTD., Pear Tree Wharf, Greenwich, S.E.10.

QUANTITY SURVEYOR, with estimating experience, civil, roads, Westminster company. — Write all details, in confidence, to Managing Director, Box 17, C. P. Wakefield, Ltd., 152-3 Fleet Street, E.C.4.

LEADING London surfacing contractors REQUIRE well experienced FOREMAN/SUPERVISOR with view to later promotion to Area Surfacing Manager. Write all details, in confidence, to Managing Director, Box 16, C. P. Wakefield, Ltd., 152-3 Fleet Street, E.C.4.

APPOINTMENTS VACANT

GENERAL CONTRACTS MANAGER. — An old-established medium-sized and expanding firm of civil engineering contractors in the West Midlands seeks a General Contracts Manager to assume responsibility for a wide range of contracts from initial client negotiations through all stages to completion. Supported at head office by efficient design, estimating and accounting departments, he will lead a competent team of contract managers and site agents, with ample scope to organise the work to the best advantage. The emoluments for this interesting and challenging appointment in a progressive company enjoying a first-class reputation will be equivalent to about £3,000 p.a. Candidates must be flexibly minded and energetic civil engineers, aged 45-55, with sound and varied practical experience of contract management and site work, and a successful record in both client and labour relations.—Write briefly, in strictest confidence, to the Managing Director (WV.72), EXECUTIVE APPOINTMENTS, LTD., 78 Wigmore Street, London, W.1.

AGENT/ENGINEER REQUIRED by medium-sized civil engineering contractors, to take control of road and sewer contracts in North London area. Permanent position with excellent prospects and good salary offered to applicant of proven ability possessing initiative and drive.—Applicants should write, stating age, qualifications and details of experience, which will be treated in the strictest confidence, to Box V.2289, "The Contract Journal."

SITE ENGINEER/SURVEYOR

REQUIRED for contract near Woking. Theodolite and dumpy—setting out buildings, roads and sewers, etc. Possible measuring duties of building works.—Write, with full particulars of experience, salary required, to:

BOX V.2258, "THE CONTRACT JOURNAL."

ESTIMATOR, experience roads and sewers, REQUIRED by medium-sized South Coast contractors. Pension scheme. Car. Assistance with housing if needed.—Write fully to G. AND G. F. MAIDMENT (POOLE), LTD., Cranbrook Road, Parkstone, Poole, Dorset.

ENGINEER/AGENT, with experience, REQUIRED for civil engineering contracts in East Anglia. Good prospects with permanent position and superannuation scheme available for a suitable applicant.—Apply, stating age, experience, and salary required, to DEREK CROUCH (CONTRACTORS), LTD., Eye, Peterborough.

VAL DE TRAVERS ASPHALTE, LTD., REQUIRE experienced ROLLED ASPHALT PLANT ENGINEER for Midland area.—Apply Area Manager, 5 Lower Temple Street, Birmingham, 2.

JUNIOR CIVIL ENGINEERS REQUIRED to work on sites with excellent opportunities for training. Applicants should be graduates, or equivalent, and should be between the ages of 20 and 26.—Apply in writing, giving brief details of qualifications and experience (including vacation course work), also stating age, to the Chief Engineer, THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, S.W.1.

AGENT

REQUIRED for road and bridge contracts in Nigeria. Preferably qualified engineer with overseas experience. Free furnished married accommodation and car provided. 18 months' tour overseas, with three months' paid leave. Kit allowance. Salary in the region of £2,250/£2,500, with excellent prospects.—Reply, in writing, in confidence, to:

Civil Engineering Director,
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, St. George's Circus, London, S.E.1.

BONUS SURVEYOR REQUIRED for contracts in the Greater London area. Experienced in taking off quantities; preplanning an advantage. Tradesmen will be considered for this post. Good salary, plus travelling expenses, non-contributory pension scheme. Write, giving full details, to Box V.2274, "The Contract Journal."

REPRESENTATIVE for contractors' plant REQUIRED by new company operating in North Midland counties. Authorised John Deere tractor dealers. An ambitious man, aged 25 to 30, with some experience in the business and who is keen to win promotion, is sought. Salary, car and expenses.—Write, giving details, to KELLY EQUIPMENT CO., LTD., 421 Nottingham Road, Ilkeston, Derbys.

CIVIL engineering contractors REQUIRE AGENTS and CIVIL ENGINEERS for contracts in North Scotland. Must be prepared, if necessary, to live away from home.—Write, giving particulars of experience, etc., to Box 0179, Wm. Porteous & Co., Glasgow.

WANTED, experienced EXCAVATOR DRIVERS; also ENGINE FITTERS and WELDERS. Permanent, pensionable and progressive posts for capable men. — FRED. WATKINS (ENGINEERING), LTD., Coleford, Glos.

AN ENGINEERING COMPANY

Serving the gas, petroleum, chemical and steel industries, REQUIRES a CLERK OF WORKS to supervise site preparation, drainage, roadworks, reinforced concrete foundations, structures and building construction at sites in the United Kingdom. Applicants should have suitable trade qualifications and construction site experience, preferably with public works contractors, with some knowledge of costing and estimating. The post is pensionable, and living-out allowances and travelling expenses are paid.

WRITE BOX V.2251, "THE CONTRACT JOURNAL."

CIVIL ENGINEERS with contracting experience are invited to apply for vacancies with British contractor operating in Ghana. This is an excellent opportunity to join a group of companies with wide interests in East and West Africa, Mediterranean and U.K. construction projects.—Write brief details of experience to Box CJ 654 LPE, Romano House, 399/401 Strand, London, W.C.2.

TAYLOR WOODROW CONSTRUCTION, LTD., have vacancies for CIVIL ENGINEERS at the head offices at Southall. Applications are invited from men with wide site experience of major civil engineering projects to be engaged upon the planning of such works. Conditions of employment are attractive. A pension scheme is in operation.—Write, giving brief details of personal history and availability for interview to Personnel Manager, 345 Ruislip Road, Southall, Middlesex.

APPOINTMENTS VACANT

MANAGER REQUIRED for civil engineering plant and transport maintenance department. Good prospects for fully qualified cost-conscious capable man. Salary range £1,000/£1,250. House available. Free pension scheme. — FRED. WATKINS (ENGINEERING), LTD., Coleford, Glos.

GENERAL FOREMAN REQUIRED for private estate development in Shrewsbury. About 100 houses annually, all trades, including road making and sewering. — Apply: FLETCHER ESTATES (HARLESCOTT), LTD., Whitchurch Road, Shrewsbury. Telephone 4436.

CONCRETE SUB-CONTRACTORS WANTED, able to undertake the setting out and concreting of short bore piles, also the construction of ground beams.—Please write to Box V.2275, "The Contract Journal."

SALES OFFICE CLERK REQUIRED by engineering company. Young man preferably with experience and/or knowledge of contractors' plant and plant hire. Holidays this year. — Apply, in writing, to the Secretary, E. P. ALLAM AND CO., LTD., 132 Sloane Street, S.W.1.

OFFICE MANAGER REQUIRED for head office of public works contractors, to control wages, buying, ordering, invoicing, etc. Experience of the trade necessary. Good salary and prospects.—Apply, in writing, to: C. J. PEARCE AND CO., LTD., Head Office, Southall, Dawley, near Wellington, Shropshire.

LEADING building and civil engineers REQUIRE experienced ACCOUNTANT for their London subsidiary. Knowledge of site costing, both for home and overseas contracts. Capable of producing interim management accounts and final accounts for audit. Preference for age group 35/40. Salary £900/£1,100, with early prospects advancement.—Write Box V.2310, "The Contract Journal."

PERSONNEL OFFICER REQUIRED by a major firm of building and civil engineering contractors operating on a national scale. This is a new appointment and the successful applicant will be responsible for arrangements attaching to staff recruitment generally, and for the administration and expansion of the company's existing training scheme, which covers both university graduates and school-leavers at G.C.E. level. Applicants should preferably possess a degree and be members of an appropriate professional institute. Previous experience in a similar appointment, with consequent knowledge of the responsibilities and opportunities attaching to the post desirable but not essential.—Written details in first instance to Box V.2309, "The Contract Journal."

REPRESENTATIVES REQUIRED to sell well-known specialised equipment to precast concrete industry in Home Counties, Midlands, or Lancashire and York areas. Men under 28 preferred, having technical qualifications or experience in building or engineering, and prepared to work long hours, drive high mileages, and often spend nights away. Good salary, all expenses, and car provided. If interested, please apply in your own handwriting, stating qualifications and telling us why you would like the job.—ALAN R. DAVIES, LTD., 20 Whiteladies Road, Bristol, 8.

AGENTS and FOREMEN for contracts in and around London. Good salary, etc., for keen men. Pension scheme (non-contributory) after probationary period. Write or 'phone for interview at 26 Victoria Street, S.W.1 (Abbey 4905), or 109 Station Road, Sidcup (FOO 4411).—RUSH AND TOMPKINS, LTD.

DRAUGHTSMAN / DESIGNER REQUIRED for mechanical and structural work mainly in connection with civil engineering plant. — Applicants should have technical training to H.N.C. (Mechanical) standard, and should write, giving age, experience, and salary expected, to JOHN MOWLEM AND CO., LTD., 91 Ebury Bridge Road, London, S.W.1.

SITE AGENT REQUIRED for building contract in the West Country.—Apply, in writing, stating age, experience, previous employers and salary required, to: LAVENDER McMILLAN (CONTRACTORS), LTD., 54 Cheam Common Road, Worcester Park, Surrey.

CIVIL ENGINEERS with experience of contracting at home and overseas and who require a settled home near London are invited to apply for a senior vacancy as ESTIMATOR at head office of contractor near Buckingham Palace. — Write brief details of experience to Box CJ 655 LPE, Romano House, 399/401 Strand, London, W.C.2.

SENIOR AGENT. First-class man for large London contract. Remuneration up to £1,800 per annum. Details to Box V.2188, "The Contract Journal."

ENGINEER AGENT REQUIRED. East Yorks. first year, age 28 to 40. Experienced piling, foundations, R.C. works and or estimating. Excellent prospects with old-established firm, now expanding. Usual allowances, superannuation. GENERAL FOREMAN also REQUIRED.—Write Box V.2279, "The Contract Journal."

EXPERIENCED WORKING MANAGER to control Post Office contracts outside in Liverpool area. Full particulars to Box 350, Forbes Keir, Ltd., Advertising Agents, 43 Renshaw Street, Liverpool, 1.

FITZPATRICK AND SON (CONTRACTORS), LTD., have following staff vacancies:—
(a) SITE CLERK for London area, experienced wages, checking and costs.
(b) H.O. SENIOR INVOICE CHECKER for bought ledger department, able correspond with suppliers.
Posts permanent and pensionable.—Apply Secretary, 455 Old Ford Road, London, E.3.

For Advertisements received too late for classification see page 181

APPOINTMENTS WANTED

POSITION REQUIRED as CONTRACTS MANAGER or AGENT, 25 years' experience building and civil engineering, past 10 years in above capacity. London or southern area preferred.
Write Box W.2158, "The Contract Journal."

AGENT / GENERAL FOREMAN, with own Site Foreman, SEEKS CHANGE. 30 years' experience with sewerage concrete construction, bridges, reservoir and water mains. Full control of contract essential. Facilities to travel anywhere. Fully conversant with instruments, setting-out, etc.
Write Box W.2327, "The Contract Journal."

YOUNG MAN (25), 10 years' experience public works, G.P.O. ductwork, and building contracting, estimating to final account, all parts U.K., SEEKS POSITION with responsibility. Interview at any time.—Write Box W.2316, "The Contract Journal."

CHIEF SURVEYOR / ESTIMATOR REQUIRES CHANGE. Trained professionally but been in contracting side of civil engineering in similar position past 20 years. Present position last five years.
Write Box W.2317, "The Contract Journal."

APPOINTMENTS WANTED

EXPERIENCED OFFICE MANAGER SEEKS APPOINTMENT anywhere (except London). Sound knowledge plant hire, etc.
Write Box W.2294, "The Contract Journal."

SURVEYOR/CIVIL ENGINEER, in mid-thirties, professionally trained, with subsequent experience in technical sales to management level, SEEKS RESPONSIBLE POST, preferably in civil engineering structural field. Wide contacts throughout U.K., some experience overseas tendering. Salary about £1,750. Present contract ends July. — Write Box W.2323, "The Contract Journal."

FOREMAN/AGENT SEEKS CHANGE. All classes roads, sewers, road plans, use level. Accustomed sole control. London or Greater.
Write Box W.2330, "The Contract Journal."

WORK REQUIRED

MOTOR BOAT OWNERS REQUIRE CONSTRUCTIONAL WORK, ATTENDANCE, PERSONNEL, GOODS, TOWAGE, etc. Craft and labour supplied.—Apply: THOMAS BROS., 62 Sussex Road, East Ham, London, E.6. Telephone: GRA. 6697/3151.

SITE CLEARANCE, BULK EXCAVATION. JANES AND CO., LTD., Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

SAM BOOTH, LTD., Perrymount Chambers, Haywards Heath, Sussex. Tel.: Haywards Heath 1126 and 1258. SUB-CONTRACT or HIRE: D9s, with Bulldozer and Caterpillar 463 Scrapers.

ALLEN OXFORD GRADERS for HIRE GRASSPHALTE, LTD., Hampton Hill, Middlesex. Telephone: Molesey 4343.

EARTHMOVING, LEVELLING, LAND DRAINAGE, RECLAMATION, etc. Consult the Surface Specialists. — SURFACE MAINTENANCE SERVICES, LTD. 124 Old Christchurch Road, Bournemouth. Tel. 24673. Branches throughout the country.

FOR HIRE IN MIDLANDS, new Blaw Knox PF90 PAVING MACHINES, complete with experienced operators (and gang) if required. Sub-contract work or price per ton for material laid (Macadam, Asphalt, Wetmix, Leanmix Concrete, etc.).—For full details, apply: CAMBRIDGE ROAD CONSTRUCTIONS, LTD., 14/26 Henrietta Street, Coventry. Tel.: Coventry 88473.

WANTED, EXCAVATION, SITE CLEARANCE and DEMOLITION WORK.
R. BARKER (PECKHAM), LTD., New Cross 3337.

EXCAVATION SUB-CONTRACTS. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D9, D8, TD18 and TD14 Scrapers, Excavators, Loading Shovels and Lorries available with competent and imaginative supervision for execution of work.—DICK HAMPTON, Broadview Farm, Blacknest, Alton, Hants. Tel.: Bentley 2241.

BULK EARTHMOVING, direct contract or sub-contract. Also BULLDOZERS and SCRAPERS for HIRE.—FRANK R. WALPOLE, LTD., 126 Wing Road, Leighton Buzzard, Beds. Leighton Buzzard 3351.

SPECIALISED EXPLOSIVES SERVICES. U.K. and OVERSEAS MOBILE UNITS coverage on ex-service strong points, sea walls and dangerous structures, etc.—124 Old Shoreham Road, Southwick, Sussex. Tel.: Southwick 3791 or Shoreham 4193.

EXCAVATIONS, SITE CLEARANCES, DEMOLITION and PLANT HIRE, SUB-CONTRACT WORK WANTED, any area. — D. W. STONE, LTD., St. Leonards Road, Hove, 3, Sussex. Tel.: Hove 46396.

FOR HIRE, One Drott and Six TIPPER LORRIES. SITE CLEARANCE. Direct or sub-contract. I. W. DOYE AND CO., Demolition Contractors, 188 Plumstead High Street, S.E.18. Woolwich 6318.

UPROOTING.—TREES, STUMPS, HEDGES, etc. We have the most experience and all modern equipment.—T. GRAVESON, LTD., Warton, Carnforth, Lancs. Telephone: Carnforth 381 and 382.

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R. S. BAGSHAW,
Clerk and Solicitor.

Council Offices,
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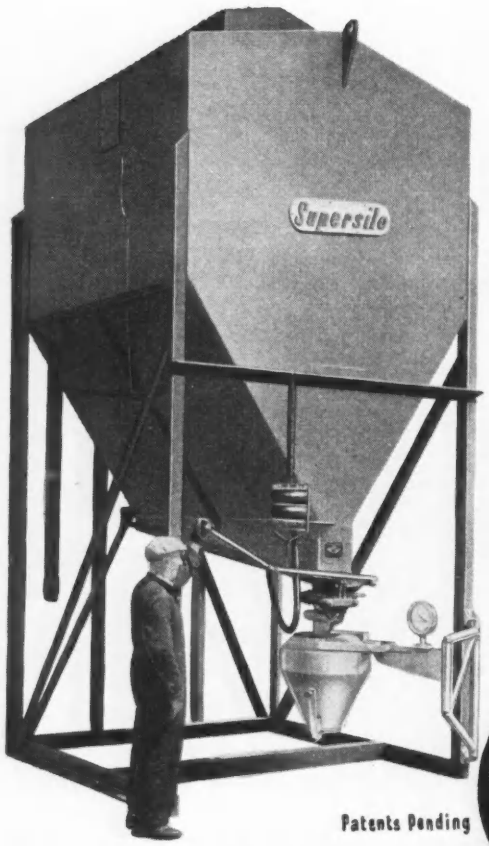

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P. D. WADSWORTH,
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The Council House,
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9th July, 1960.

COUNTY BOROUGH OF CROYDON.

NOTICE TO BUILDERS.

Contractors with the organisation and labour force to carry out the work expeditiously, and who wish to **TENDER** for the **FOURTH STAGE REDEVELOPMENT** of the **SHRUBLANDS HOUSING ESTATE,** comprising the **ERECTION** of **242 DWELLINGS** in **TWO-, THREE-** and **FOUR-STOREY BLOCKS** should send their names to the Borough Engineer for Bills of Quantities, to be issued on the 1st **SEPTEMBER, 1960.**

Closing date for Tenders: 29th **SEPTEMBER, 1960.**

E. TABERNER,
Town Clerk.

ESHER URBAN DISTRICT COUNCIL.

OMNIBUS LAY-BYS—HIGH STREET, ESHER.

CONTRACT NO. 307.

The Council invite **TENDERS** for the **ABOVE WORKS,** which comprise the **CONSTRUCTION** of One **OMNIBUS LAY-BY** of approx. 135 sq. yd. in **REINFORCED CONCRETE,** with Kerbing and Footpath Works, and the **RECONSTRUCTION** of a **SECOND LAY-BY** involving Realigning of Kerbing and Surfacing in Hardcore and Tarmacadam.

Form of Tender, Specification and Bills of Quantities may be obtained from the Engineer and Surveyor's Department, Council Offices, Esher, upon payment of a deposit of One Guinea which will be refunded on receipt of a bona-fide Tender together with the return of all documents in good condition.

Tenders, on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. 307," and bearing no name or mark indicating the sender, must be received by the undersigned not later than 5 p.m. on **MONDAY,** the 8th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher,
Surrey.

ASHFORD (KENT) URBAN DISTRICT COUNCIL.

FIXED TENDERS are invited for the **ERECTION** of **THREE SHOPS** with Maisonnettes over, at **FAVERSHAM ROAD,** Kennington, together with Service Road and Site Works.

Bills of Quantities and Forms of Tender may be obtained from The Surveyor, 1 Elwick Road, Ashford, Kent, by 26th **JULY, 1960.**

Sealed Tenders, in the envelope provided, are to be delivered to the undersigned not later than the 26th **AUGUST, 1960.**

G. H. REDFERN,
Clerk of the Council.

Council Offices,
Church Road,
Ashford, Kent.
9th July, 1960.

CIVIL ENGINEERS REQUIRED for programming and planning civil engineering projects, including the design of incidental temporary work, in any part of Great Britain. Permanent positions with excellent prospects are available. Pension scheme and life assurance.—Apply in writing, stating education, age, qualifications, experience, and salary required, to **ROBERT M. DOUGLAS (CONTRACTORS), LTD.,** 395 George Road, Birmingham, 23.

SITE CASHIERS REQUIRED, experienced in building and civil engineering contracts. Must be willing to travel. Subsistence allowance paid when away from home. Staff pension scheme available. Apply in writing, with details of experience, age, and salary expected, to Mr. J. Laycock, Banner Cross Hall, Sheffield, 11.

PLANT MAINTENANCE FITTER REQUIRED for Greenwich depot. Staff job with good wages and conditions offered to first-class man. Some experience with small diesel engines desirable.—**MOWLEM PAVING CO., LTD.,** 263 Tunnel Avenue, S.E.10. Tel.: GREenwich 2122.

BARBER-GREENE DRIVER REQUIRED for work in London area only. Permanent job to first-class man.—**MOWLEM PAVING CO., LTD.,** 263 Tunnel Avenue, S.E.10. Tel.: GREenwich 2122.

COST CLERK, experienced, REQUIRED for large firm of public works contractors. Head office near Piccadilly.—Write, stating age, experience, and salary required, to Box V.2333, "The Contract Journal."

HOWARD FARROW, LTD., REQUIRE SITE ENGINEERS for soft ground tunnel contract. Applicants must have had practical experience on tunnel work, including accurate setting out above and below ground. Positions are permanent and offer good conditions of employment, with a pension scheme and opportunities for promotion.—Applications, giving full details of training, experience and qualifications, to Ref. FGG, Howard Farrow, Ltd., C.E. Division, Golders Green Road, N.W.1.

LIVE SALESMAN REQUIRED for contractors' plant department. Permanent, progressive pensionable post. Housing available.—**FRED WATKINS (ENGINEERING), LTD.,** Coleford, Glos.

EXPERIENCED CIVIL ENGINEERING AGENT REQUIRED.—Please write, stating details and salary required, to Managing Director, J. W. CHORLEY, LTD., Atherstone, Warwicks.

BOROUGH OF GRAVESEND.

WROTHAM ROAD (PART) RECONSTRUCTION.

FIXED-PRICE TENDERS, returnable not later than the 15th **AUGUST,** are invited for the **RECONSTRUCTION** of approx. 2,090 sq. yd. of **CARRIAGEWAY** in **REINFORCED CONCRETE.**

Documents may be obtained and Drawings inspected at the Office of the **BOROUGH ENGINEER AND SURVEYOR,** 6 Woodville Terrace, Gravesend.

BOROUGH OF STAMFORD.

SEWAGE DISPOSAL WORKS EXTENSIONS, 1960.

TENDERS are invited from suitably experienced contractors for the **CONSTRUCTION** in **REINFORCED CONCRETE** of three 36ft. dia. **SLUDGE DIGESTION TANKS,** each of 130,000 gallons capacity; two **PYRAMIDAL HUMUS TANKS,** each of 16,000 gallons capacity, and ancillary works.

Drawings may be seen at the Offices of the Engineers, **MESSRS. PICK, EVERARD, KEAY AND GIMSON,** 6 Millstone Lane, Leicester, from whom the Specification, Bill of Quantities and Layout Plan may be obtained on payment of a deposit of Five Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents. Cheques to be made payable to the Stamford Borough Council.

Tenders, on the forms supplied and in the envelopes provided, are to be delivered to the undersigned not later than Noon on **MONDAY,** 15th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. BEDFORD,
Town Clerk.

Town Hall,
Stamford, Lincs.
15th July, 1960.

BOROUGH OF WEYMOUTH AND MELCOMBE REGIS.

The **CORPORATION** propose to invite **TENDERS** for the **ERECTION** of **26 OLD PEOPLE'S BUNGALOWS** as Infilling on Various Sites in the Borough, and are preparing a list of selected contractors.

Contractors desirous of being included in this list are invited to apply to the Borough Engineer, 6 Pulteney Buildings, Weymouth, not later than First Post on **FRIDAY,** 22nd July, 1960.

E. J. JONES,
Town Clerk.

Town Clerk's Office,
Weymouth.
7th July, 1960.

CUCKFIELD URBAN DISTRICT COUNCIL.

RECONSTRUCTION OF PART OF LUCASTES LANE, HAYWARDS HEATH.

The Council invite **TENDERS** for the **ABOVE ROADWORKS,** which include 360 lin. yd. of **KERBING, STRENGTHENING, SHAPING** and **SURFACING** of 180 lin. yd. of 18ft. wide **CARRIAGEWAY,** and 360 sq. yd. of **NEW FOOTWAY CONSTRUCTION;** also Surface Water Drainage and other incidental works.

Forms of Tender and other Contract documents may be obtained from the Council's Surveyor on payment of a deposit of £1 1s., which is returnable on submission of a bona-fide Tender and/or the return of the Contract documents.

Tenders, in plain sealed envelopes endorsed "Tender for Road Works," must be delivered to the Clerk of the Council not later than Noon on 6th **AUGUST, 1960.**

The Council do not bind themselves to accept the lowest or any Tender, and a Tender submitted otherwise than as directed will be rejected.

J. A. EVANS,
Clerk of the Council.

Council Offices,
Oaklands,
Haywards Heath,
Sussex.
11th July, 1960.

FOREMAN CARPENTER REQUIRED for sewage work construction. — Apply, stating experience and remuneration required, to: S. H. LEACH, LTD., Rear of "Halfway House," Bovingdon, Herts. 2146.

READY MIXED CONCRETE PLANT MANAGER REQUIRED in N. Kent. Knowledge of plant maintenance and concrete control essential.—Please write, with full particulars, to Box V.2290, "The Contract Journal."

COMPETENT REPRESENTATIVE REQUIRED by London plant company. Must be experienced and should preferably have contacts in London and Home Counties.—**DUDLEY VALE, LTD.,** 3 Buckingham Place, London, S.W.1. Telephone: VICtoria 0252.

SETTING OUT ENGINEER REQUIRED for expanding organisation. First-rate conditions of employment and salary offered.—Apply, giving particulars of self and experience, General Manager, A. A. STUART AND SONS (CONTRACTORS), LTD., 10 Upper Grosvenor Street, W.1.

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BOROUGH OF NEWARK-ON-TRENT

SENIOR ENGINEERING ASSISTANT (WATERWORKS).

APPLICATIONS invited for **ABOVE APPOINTMENT** in the Borough Engineer and Surveyor's Department.

Statutory water area—31¼ acres; population served—39,000.

Salary within Special Grade (£785-£1,070 p.a.), or A.P.T. Grade III (£880-£1,065 p.a.), according to qualifications and experience.

Housing accommodation available.

Applications, with names and addresses of two referees, to Borough Engineer and Surveyor, Municipal Buildings, Balderton Gate, Newark-on-Trent, by 2nd **AUGUST, 1960.**

J. H. M. GREAVES,
Town Clerk.

Newark-on-Trent.
1th July, 1960.

HEBBURN URBAN DISTRICT COUNCIL.

MATERIALS AND BONUS CLERK—DIRECT LABOUR HOUSING.

APPLICATIONS are invited for the **APPOINTMENT** of **MATERIALS AND BONUS CLERK** in connection with the Council's Direct Labour Housing, at a salary of £11 to £12 per week, according to experience.

Preference will be given to applicants who have had previous experience in bonus calculations, costing and timekeeping.

Applications, stating age, present employment and previous experience, accompanied by three recent testimonials, should be received by the undersigned not later than Noon on **TUESDAY,** 19th July, 1960.

K. BROWNLOW,
Acting Clerk to the Council.

Council Offices,
Argyle Street,
Hebburn,
Co. Durham.
11th July, 1960.

URBAN DISTRICT OF WESTHOUGHTON.

CENTRAL PARK.

TENDERS are invited for the **CONSTRUCTION** and **LAYING OUT** of approx. 10 acres of **PUBLIC PARK** in the Urban District. The contract is essentially of a type usually carried out by specialists in playing field and similar work, and involves making tennis courts, bowling greens and paths, as well as fencing, landscaping and incidental work.

Particulars for tendering may be obtained from the Surveyor, Town Hall, Westhoughton, and applications for the same should be accompanied by a deposit of Ten Guineas, which will be returned on receipt of a Tender.

Tenders, in plain sealed envelopes, addressed to the **CLERK OF THE COUNCIL,** Town Hall, Westhoughton, Bolton, bearing the words "Tender for Central Park," but not bearing any name or mark indicating the sender, to be delivered not later than 9th **AUGUST, 1960.** The lowest or any Tender will not necessarily be accepted.

URBAN DISTRICT OF WESTHOUGHTON.

ROAD CONSTRUCTION CONTRACT.

TENDERS are invited for the **CONSTRUCTION** of 615yd. of **BY-PASS ROAD** with all incidental works in connection with a diversion of **LEIGH ROAD,** Westhoughton (B.5235). Particulars for tendering from the Surveyor, Town Hall, Westhoughton, Bolton.

Tenders, in plain sealed envelopes, addressed to the **CLERK OF THE COUNCIL,** Town Hall, Westhoughton, Bolton, bearing the words "Tender for Road Construction," but not bearing any name or mark indicating the sender, to be delivered not later than 8th **AUGUST.** The lowest or any Tender will not necessarily be accepted.

J. I. CASE CO., LTD., will appoint additional **AREA REPRESENTATIVES** in the North-East, Midlands, South-East.—If you are an absolutely first-class Earth-moving Representative and you wish to join a progressive and rapidly expanding company, we invite you to apply in the first instance to Sales Manager J. I. Case Co., Ltd., Mill Road, West Drayton, Middlesex, who will treat every application in complete confidence.

THE AMALGAMATED ASPHALTE COMPANIES, Agecroft Commercial Estate, Whit Lane, Pendleton, Salford, 6, have a vacancy on their staff for a **ROAD SURFACING SUPERVISOR.** The position is permanent and pensionable. Full details of previous experience should be addressed to the Manager.

QUANTITY SURVEYOR REQUIRED for long civil engineering contract, Chester area. — Apply F.C. **CONSTRUCTION CO., LTD.,** City Road, Derby.

SECTION FOREMEN for bridge works contract in Worcestershire. Time served as carpenters, with extensive experience in shuttering. **GANGERS** REQUIRED for bridge works contract in Worcestershire. Apply or write **LOMOUNT CONSTRUCTION, LTD.,** Site Office adjoining The Rectory, Primsland, near Hadzor, Droitwich. Tel.: Droitwich 2004.

YOUNG Graduate **CIVIL ENGINEER** REQUIRED by old-established firm dredging contractors. Previous experience not essential. Employment on permanent basis with full staff benefits to right man. Write Box V.2311, "The Contract Journal."

SHUTTER HANDS urgently REQUIRED for large London contract.—'Phone site at HOL 1944/5.

PLANT CLERK.—Vacancy exists in Greenwich office for a Plant Clerk fully conversant with all aspects of plant documentation and plant hire. Applications in writing, stating brief details of experience, to the Chief Mechanical Engineer, **AMALGAMATED ASPHALTE COMPANIES, LTD.,** Pear Tree Wharf, Horn Lane, Greenwich, S.E.10.

CONCRETE TECHNOLOGIST REQUIRED for concrete laboratory in Westminster. Successful applicant will be responsible for site and laboratory testing programmes. Good salary and conditions. Apply in writing to the Chief Technical Officer, **READY MIXED CONCRETE (LONDON), LTD.,** 16-18 Old Queen Street, London, S.W.1.

BUILDING SURVEYORS (2), experienced, REQUIRED for progressive builders and contractors, for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from inquiry to final account. Apply in writing to **RICHARDSON,** Herbert House, Slade Green, Erith, Kent.

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Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

APPLYING THE BRAKE

IT cannot be said that industry and commerce had no warning of the latest economic restrictions. Over recent months, Government spokesmen have repeatedly expressed concern about impending inflation and the main economic indicators—exports falling and imports rising—have been pointing to caution. In addition, the balance of payments has deteriorated; delivery dates have lengthened, and labour shortages are already engendering further wage claims which, if granted, will be followed by another rise in prices.

The latest restraints might, therefore, have been more severe. Contractors can scarcely complain, in the circumstances, about a one per cent. increase in Bank Rate, a doubling of special deposits and a levelling off of public investment, particularly as the Government have stressed that the Chancellor's early action is designed to prevent more serious balance-of-payments problems in the autumn, and to ensure that no further restrictive action will be needed to combat this year's inflationary tendencies.

With one very important exception, all sections of the contracting industry are about as fully occupied as they have been at any time since 1955. There are some signs, notably the shortage of craftsmen, bricks and reinforcing rods, that the limit of safe expansion is being reached and that, in the absence of a breathing space, the difficulties experienced by the industry in 1955 could be repeated. The industry is, therefore, likely to benefit in the long run from some small reduction in the immediate pressure, whether it results from the Government's monetary restraints or from the decision to confine public investment next year to the level of this year, a high level by any standard. Stability within the industry is not threatened. There is no danger that the load of work will slump to the level of 1958, a level that was so inadequate as to hinder the planning of jobs and the recruitment of personnel.

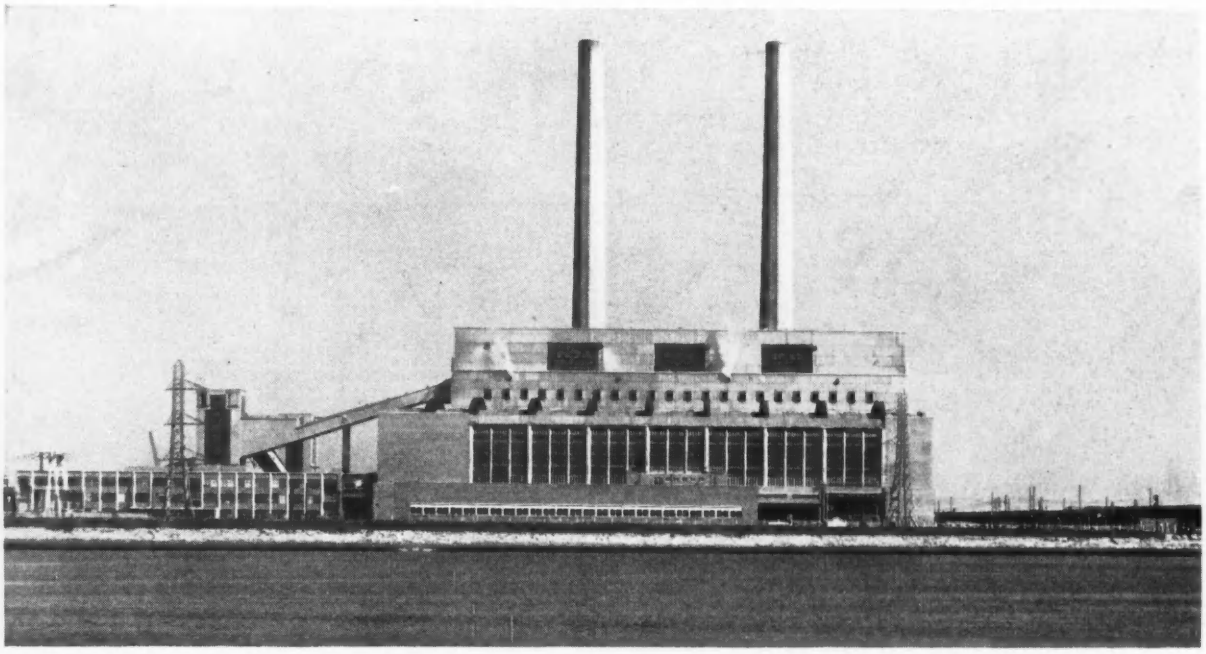
One point needs to be made, however. It would be unfortunate if the latest measures provided yet another excuse for postponing road building. The Federation of Civil Engineering Contractors have pointed out that suitable plant is standing idle and that the contractors concerned reckon that they can cope with much more than the present programme. The present situation seems to represent a waste of valuable specialist resources.

Opportunities Ahead

HOSPITAL building in Britain got away to a slow start after the war. Shortages of materials and the continuing need to limit capital expenditure compelled hospital authorities to devote most of their resources to work which would enable existing accommodation to function. No new hospitals were started and there were few large new schemes.

Not until 1955 did the present hospital programme begin to take shape. In 1955-56, N.H.S. hospital capital investment in England and Wales exceeded £10m. for the first time. Ever since, the annual figure has steadily mounted until it has reached £25½m. for the current year. For 1961-62, £31m. has been earmarked in England and Wales, and £3.9m. in Scotland.

No one can be quite certain of the future, even in this age of scientific achievements, but there is every indication that the hospital programme should maintain its present trend and provide the architect and builder with many opportunities during the years ahead.



The station as seen from the opposite bank of the River Blyth

BLYTH "A" POWER STATION IN COMMISSION

First Stage of £58m. Development

WITH an installed capacity of 480,000 kilowatts, the recently commissioned Blyth "A" Power Station, Northumberland, is the largest to be built in the north-east of England since the electricity industry was nationalised. It has cost about £24m.

Alongside it, on the 241-acre site, is now being built the "B" station at a cost of about £34m. This will bring the plant installation up to 1,730,000 kilowatts, and will be one of the biggest developments under construction in Britain.

The boilers of the "A" station are suspended—that is, they hang from transverse girders supported on robust columns rising from the foundations. The suspension technique permits all expansions to take place freely. About 8,400 tons of mild steel are used in the heavy structural steel frame.

One hundred main columns, consisting of 4ft. x 3ft. hollow boxes made up of welded plates varying in thickness between ½in. and 2in., support the suspension girders. These are mounted some 150ft. above ground level, and are of heavy welded plate up to 9½ft. deep, and they span 50ft. Under full loading, the deflection of these girders is not more than one-thousandth of the span, or just over ½in.

A layer of strong boulder clay, about 70ft. thick and overlying the coal measure sandstone, provides a bearing medium amply capable of supporting the station. The main foundations are spread to load the clay to about 2.3 tons per sq. ft., but adjustments have been made according to the depth, size and shape of individual foundations.

There are four coal bunkers, each 85ft. long x 30ft. wide x 54ft. deep. The lower part of each bunker is of catenary section. This part comprises a ½in. thick skin plate in a freely hanging shape when the bunker is full. When the bunker is empty or partially full, the stressing would tend to distort the plate. This is prevented by an internal framing, which also forms the necessary steep slopes to assist the flow of coal to the outlet valves.

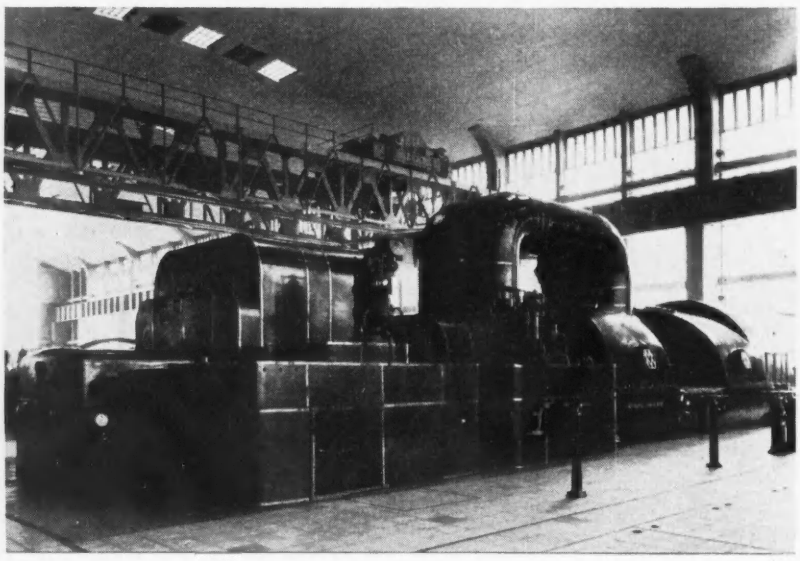
The turbine house, located to the south of the boiler house, contains four 120,000 kilowatt turbo-alternators arranged transversely. Here the foundation work is complicated by four longitudinal circulating water culverts, each 7ft. 6in. square in internal cross-section and made of reinforced concrete, together with numerous branch culverts and pipe connections to main condensers and auxiliary plant. Below the main culverts pass the cable tunnels connecting the ancillary services of the boiler house to the control room.

Plate girder fabrications set into massive concrete blocks support the turbo-alternators. These fabrications span the gap left in the block for the condensers. The overall size of the turbine blocks is 90ft. long x 30ft. high x 22ft. wide.

Reinforced concrete has been used for the structure of the turbine house, which has a clear span of 115ft. The main columns support a 160-ton overhead crane, which spans the full width of the turbine house and traverses its length. Hollow precast concrete curved beams, 10ft. deep x 4ft. 6in. wide, span between the main columns and support the 3in. thick shell roof deck.

Two chimneys, 450ft. high and built mainly of reinforced concrete, serve the station. At the bottom of the chimneys the concrete is about 16in. thick, but decreases to a minimum of 6in. farther up the height. An anti-corrosion lining of Accrington acid-resisting brick is freely supported on corbels at 32ft. vertical intervals.

At the west side of the entrance to the ash barge dock is the circulating water pump-house, a heavy reinforced concrete struc-



The steam end of a 120-MW turbo-alternator

ture founded at a depth of 33ft. 9in. below low water mark. It comprises intake chambers, suction chambers and pump bays, all below low water level, with provision for isolation so that the suction chambers can be drained for maintenance purposes. The pumphouse itself was built inside a temporary sheet pile cofferdam which was circular in shape and 162ft. in diameter. This dam was supported on annular reinforced concrete walings which afforded unrestricted working space for construction.

Twin reinforced culverts, each 7ft. 6in. square inside, convey the circulating water, under pressure, to the condensers associated with the turbines in the main building.

After passing through the condensers, the cooling water is conducted by similar culverts, west and north of the main building, to a siphon seal drop near the north-east corner of the main building. From the siphon drop the water passes into a tunnel 9ft. in diameter at a depth of 30ft., and passing under the main street of the village of Cambois to a riser chamber on the sand dunes.

As two similar tunnels will be required for the "B" station, four riser chambers and tunnels have been constructed, sufficient for both stations. The outfall culverts connecting the riser chambers to the discharge point below low water mark at spring tides are also sufficient to deal with both stations. These culverts were constructed of heavy reinforced concrete and were built in open sheet steel cofferdams. The overall length of the complete culvert system is 4,340ft.

Ash disposal is normally to sea by barge, and an ash dock has been built forming an extension to the old tidal basin in Blyth Harbour. The dock is 550ft. long and 150ft. wide, constructed of heavy sheet steel piling walls tied back by steel rods to a continuous reinforced concrete beam anchorage. Part of this anchorage is incorporated in the foundations of the dust bunker and ash reservoir. The dust bunker is of very heavy reinforced concrete and is 137ft. long x 32ft. wide x 100ft. high. Associated with the ash reservoir and dust bunker are pumphouses, a sub-station and other ancillary buildings.

Coal Handling

Coal storage and reception facilities are provided at the north of the site, where extensive sidings have been built. For the "A" station, there are 32 reception sidings and two "run-round" loops. The seven centre sidings are associated with the filler pits and tipplers. When the "B" station is constructed, a further 16 tracks will be installed, giving a total siding length of about 25 miles. This extensive siding requirement arises because there is a lack of siding capacity on the British Railways system in the area.

From the tipplers and pits the coal is taken by belt conveyor under the west group of sidings to a conveyor tower, where it can be directed either to the stocking-out area or to the power station bunkers.

Weighing and sampling the coal is carried out in the filler pits, and sampling is also carried out in one of the conveyor junction towers. The first junction tower contains crushers to reduce any large coal to a suitable size for the pulverising mills, and facilities are also provided in the system to screen coal reclaimed from the store to remove large trash.

The coal handling plant has been designed with a view to the requirements of both stations, and a second conveyor system will be added to the last junction tower to feed the coal to the "B" station.

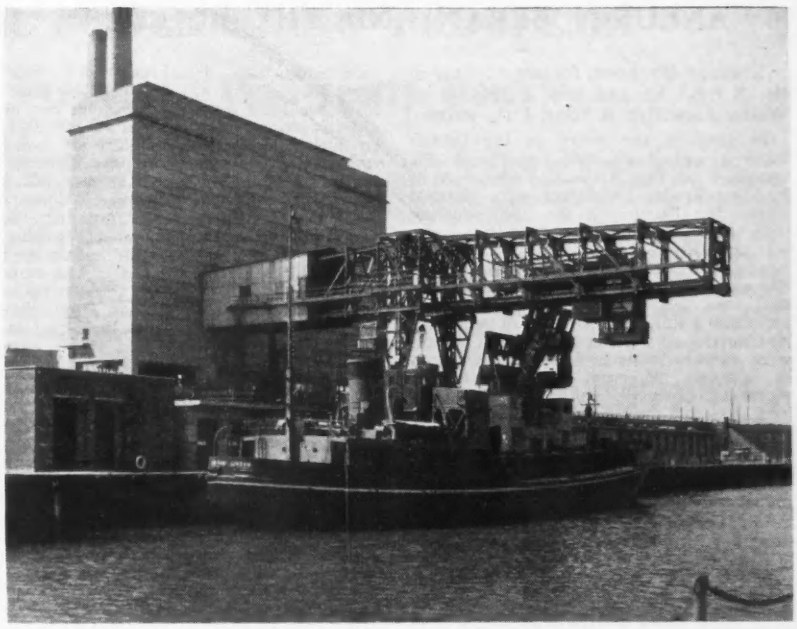
Coal to store is discharged from a travelling stacker with a short boom belt, and is then further distributed by bulldozers. A travelling reclaiming transporter is used, again in conjunction with bulldozers and a reclaiming conveyor, to take coal from store to the power station.

Control of the conveying plant is from two desks, one located near the first junction tower and the other in the junction tower directly connected with the "A" (and later the "B") station bunkers.

Boiler Plant

A travelling distributor transfers the

(Concluded on next page)



Ash handling silos with ash barge loading

View from the roof of the station of the final coal conveyor from the coal store to the bunkers

ANEURIN BEVAN AND THE BUILDERS

STANLEY HEARDER, former director of the N.F.B.T.E., and now a director of Walter Llewellyn & Sons, Ltd., writes:

In view of the policy of the Labour Party I and, I am sure, nearly all the members of the National Federation of Building Trades Employers were alarmed when that Party won the 1945 election with such a large majority, and that alarm was certainly increased when Mr. Bevan's appointment as Minister of Health was announced. As time went on, however, my own alarm decreased almost to vanishing point, and those of us who met Nye developed a warm regard for him and were very sorry when he was transferred to another Ministry. Many of our members, however, continued to regard him as a big bad wolf, and I was constantly advising them to judge him not by his provocative utterances but by what he did or almost, if not equally as important, by what he did not do. And on several occasions I had, in self-defence, to explain at Federation meetings that I strongly disagreed with the Minister's policy!

I was fortunate in having been in charge of the Housing Division of the Ministry of Health for some time before I joined the Federation—fortunate because on several occasions I was able to tell Mr. Bevan that the views on such subjects as private enterprise housing which I was putting forward on behalf of the Federation were the views that I had held whilst at the Ministry. Whilst always prepared to listen, and never objecting to frank speaking, he more often than not flatly disagreed with us, and said so in language which was sometimes unprintable. A discussion with him in his room at the Ministry was, indeed, most stimulating! When he could be, he was helpful, and could be relied on on such occasions to emphasise that a Tory Government would have been less accommodating.

I shall always remember the meeting when he told Walter Forsdike and me that our Quantities Rule was crucifying local authorities. He threatened to withdraw his Circular advising Bills of Quantities for local authority housing, but he did not do so. On another of my visits to him, he accused builders of being responsible for exceeding the licensing limits for repairs—then, I believe, £2 a month plus £10 per half year. When I described happenings in my own home he confessed to something similar regarding his, and in a public speech a few days later he blamed housewives! And both of us having been born and brought up in a terrace house, I got him to admit that it was natural for people as their circumstances improved, whether they were Labour, Liberal or Conservative, to want first a semi-detached and then a detached house.

A word now about two speeches of the Minister to builders to show how persuasive he could be. The first was made at a Conference organised by B.I.N.C. His well-received opening remarks were followed by papers by, amongst others, my old friend, George Grosvenor, of Bath. George, in characteristic fashion—a mixture of forthrightness and sweetness—said just what he thought of Government policy and I suspect that, like me, he hoped that Nye would not stay to reply. But he did, and we on the platform were a little sad to see an audience largely composed of builders applauding so vociferously the Minister's sallies at Mr. Grosvenor's expense.

The second speech was at a meeting of the National Council of the Federation in New Cavendish Street. When I met him the Minister asked why builders' H.Q.s were always sumptuously furnished. I pointed out that his room at the Ministry was even more imposingly equipped! He had come to discuss the concentration of labour and materials on houses nearing completion, and was received in such stony silence that Mr. Forsdike, the president, and I were a little anxious as to how things would go. We need not have worried. As his speech developed Nye surprised members by his knowledge of the industry and the result was that the longer he spoke, the greater was the applause. And after staying on to answer questions—he said he was prepared to stay all night if necessary—he left to loud clapping of the one, two, three, pause, variety. He told me afterwards that the meeting was one of the best he had attended.

I mentioned earlier the things which the Minister did and those which he did not do. Although utterly opposed to the building of houses for sale, he did not stop it altogether, and he recognised the National Housebuilders Registration Council under the Building Societies Act of 1939, and he supported the National Federation in its insistence on Bills of Quantities. He did not support the demands for the nationalisation of the building industry and, whilst he advocated direct labour by local authorities as the alternative, he pointed out that it could be an expensive luxury. Indeed, he issued a circular telling local authorities that their competition with contract builders must be fair. And he did not support the setting up by the Minister of Works of a National Building Corporation. This might, perhaps, have been because he would not trust another Department to control it!

I am very sorry indeed at the passing of yet another of several Ministers of Health whom I have liked and admired, and I shall always regret that I did not have the opportunity of working under Nye Bevan when he was the political head of the Department in which I spent most of my career.

OVERSEAS EXPANSION OF C.C.L. PRESTRESSING SYSTEMS

Cable Covers, Ltd., announce the formation in the United States of a subsidiary company called Ancarite Incorporated of New Jersey, and a joint company in Australia called C.C.L. (Australia) Pty., Ltd., of Sydney.

(Concluded from previous page)

fuel from the last conveyor belt into the station bunkers, each of which has a capacity of 2,000 tons. From each bunker the coal descends to the pulverising mills, where it is ground to a fine powder. There are five mills for each boiler, and they are individually driven by 160-h.p. induction motors. Each mill can handle up to 15 tons of coal per hour, and four mills are sufficient to maintain the boiler at full output. Thus it is possible to keep one mill in reserve or under overhaul.

After pulverising, the coal is transferred by an air stream to the burners. To provide this primary air, each mill is pressurised from a fan driven by a 200-h.p. induction motor.

To permit the heat release from the fuel to follow the steam requirements of the generating sets, the raw coal is fed into the mills by rotary table feeders, which are driven by constant speed motors through variable gearboxes and clutches. The operation of the gearboxes and the clutches is regulated by the automatic control system.

Each of the four boilers has 20 26in. diameter horizontal flame circular-type burners feeding pulverised fuel into the furnace. In addition, there are 12 pressure atomising oil burners, with automatic spark ignition, fitted in the front wall of the furnace. These burners are used for starting-up purposes, but it is possible to fire the boilers up to 10 per cent. of maximum continuous rating from this equipment, which is operated by remote control from the unit control room.

The oil is stored in two 40-ton storage tanks, and is heated before being sprayed into the furnace at a pressure of about 350lb. per sq. in.

Under full load conditions, each boiler is capable of evaporating, continuously, 860,000lb. of water per hour and converting it into steam at a pressure of 1,600lb. per sq. in. and at a temperature of 1,010 degrees Fahrenheit.

The four 120,000 kilowatt 3,000 revolutions per minute turbo-alternators are operated on the unit principle of combining a boiler, a turbo-alternator and their principal ancillaries as a single operating unit. There are thus no connections between the separate units and sets, the only common services being those of the station transformer supplies used for starting purposes only, circulating water, town water, and treated make-up water.

The hydrogen-cooled alternators generate at 13,800 volts and have an output of 120,000 kilowatts at 0.8 power factor with a hydrogen pressure of 30lb. per sq. in. Four coolers, embodied in the stator casing transfer the heat in the hydrogen to a distilled water circuit, and the distilled water is in turn cooled in heat exchangers which transfer the heat to the main circulating water system.

Circulating Water

Circulating water is taken from the Blyth River estuary, which is tidal. There are four circulating water pumps in the pumphouse, each of which can handle 3,960,000 gallons of water per hour. They are each driven by a 1,200-h.p. 328 revolutions per minute 3,300-volts motor. Before entering the pumps, the water is screened to remove all trash.

After passing through the condensers, the water is discharged into the North Sea.

Ash Disposal

The ash from the furnace falls into a dry type ash hopper at the bottom of the boiler, and is then sluiced by a high pressure water system to an ash sump, from which it is in turn pumped to settling ponds near to the ash barge dock.

Dust from the mechanical and electrostatic precipitators is handled in the dry state by compressed air into collecting hoppers, whence it is removed by a screw-type pump and then blown into the main dust silos alongside the ash barge dock. It is discharged from the silos into barges via air slides, mixer conveyors and belt conveyors.

Provision is also made for the dust to be transferred directly to an ash pond, if an emergency arises.

The barges themselves are self-powered vessels and take the ash well out into the North Sea for dumping in a specified area beyond the 20-fathom line.

Consultants

Merz and McLellan, London, were appointed as consulting engineers for all mechanical, electrical and main station and civil works, and are associated with Sir Alexander Gibb and Partners, London, as civil engineering consultants for the circulating water and dockside works.

The associated architects are L. J. Couves and Partners, Newcastle upon Tyne, and the mining consultants are William Armstrong and Sons, Newcastle upon Tyne. Site investigation was by Soil Mechanics, Ltd., London.

Sir Robert McAlpine and Sons (North Eastern), Ltd., were the contractors for all the foundations, the circulating water culverts, railway sidings, roads, drainage, etc., the superstructure for the main and ancillary buildings, circulating water works and other works outside the main site. Bierrum and Partners, Ltd., were responsible for the reinforced concrete turbine house, and precast floors and roof units were by Concrete, Ltd.

FULL ORDER BOOKS BRING PROBLEMS

N.F.B.T.E. President's Half-yearly Review

IN his review of the first six months of 1960, presented at the half-yearly general meeting of the National Federation of Building Trades Employers held in London last week, MR. D. E. WOODBINE PARISH, F.I.O.B., president of the National Federation, said it was true to say that the order books of the industry were now fairly full and that there was currently in hand something approaching a record volume of work. This was, however, creating problems in connection with the availability of skilled labour and certain key materials.

D. WOODBINE PARISH

Referring to meetings held with the Building Industry Distributors and the National Council of Building Materials Producers, Mr. Woodbine Parish said the National Federation had stressed that unless there was an increase in the production and availability of certain materials, particularly bricks, the future productivity of the building industry would be adversely affected.

"We have made it clear too that manufacturers of materials must be bold and have confidence in the future so that expansion of capacity and not stagnation becomes the keynote of their policy," he continued. "With regard to bricks, continuous representations are being made to the Minister of Works and to individual manufacturers.

"Certain shortages of reinforcing rods, particularly of smaller diameter straight rods, have been experienced, but through our contacts with the Light Rolled Steel Products Conference we have been able to help members on many occasions.

"A shortage of cement, particularly in the North West, has recently been reported. This, it is believed, is a problem of distribution rather than production and we are doing all we can with the manufacturers to overcome the present situation, which it is hoped will be of only a short duration.

"It should be emphasised, however, that builders can do much to alleviate the materials position by refraining from panic ordering and unreasonable stockpiling of those materials in limited supply."

Other points made by the president in his review were:—

An example of the way in which the National Federation keeps a constant and vigilant eye on matters which are likely to affect its members, and the size and order of the building programme generally, followed the publication of the Radcliffe Committee's Report on the Working of the Monetary System. The Federation set up a study group to examine the report and the implications of its contents so far as they affected, or were likely to affect, the building industry. The study group's memorandum was subsequently sent to the Ministry of Works, the Ministry of Housing and Local Government, the Treasury and the Press. As a result, the Federation was able to make it widely known that certain of the controls suggested by the Radcliffe Committee as a method of regulating the economy in general would have an adverse effect on the building industry and would not necessarily achieve the results which were intended; that sudden changes in the demand for building work are harmful to the efficiency and economy of the industry; and that there would be considerable long-term gains in efficiency if the building industry could see ahead with some degree of certainty.

The Labour Position

With regard to the availability of labour it must be remembered that our industry, more than most, is dependent on a large mobile and ubiquitous force. This is—and there is every sign that it is going to continue—a time when inter-industry competition for labour is very keen. Many industries, particularly manufacturing industries, are more prosperous than building; most are able to mechanise their production to a greater extent than we can and so reduce the incidence of labour costs. We must meet this competition if we are to recruit the quantity and quality of men we need. That means we must think seriously about the individual status of building operatives as compared with that of workers in other industries.

We must think seriously about the earnings they take home, about their general conditions of employment and about their welfare on sites. We must never for one moment take the existence of a highly skilled craft labour force for granted. Our thinking and our policies on these issues have to be adjusted in the light of the rapid changes taking place in the social and economic pattern against which our industry operates and conducts its affairs. Our approach to determining our policy with regard to labour must take into account the standard of efficiency we ourselves are able to sustain in our own concerns, for building operatives—no more than other skilled men—have no wish to work for backward and out-of-date firms.

42-hour Week

In many industries, the result of last winter's wage negotiations was that a 42-hour week was established, and the inevitable pressure is already being exerted on us to ensure that the status of the building worker in relation to his fellow workers in industry does not diminish.

I think our future labour needs are such that we shall have to face this problem with statesmanship and courage over the next few months, with a view to negotiating a satisfactory solution. The volume and pace of building activity, regardless of the modern aids we have, still varies between winter and summer. It is still important for us to be able to take the fullest advantage of summer conditions. If there is to be a further shortening of the normal working week, employers must ensure that they and their operatives achieve the maximum output from the hours which are worked. This is partly a matter of management and supervision and partly a matter for joint arrangement so that time-wasting breaks are eliminated. It may well be that in our negotiations it will be possible to agree that overtime control be modified.

There is also the question of length of notice of any change that may be agreed. We already know that next February a rise in wage rates of ½d. per hour under the Sliding Scale is likely and that next April, there will be further marginal rises in labour on-costs through the introduction of the new state graduated pension scheme and an almost certain increase in holiday credit contributions. It is vitally necessary in present-day conditions for our member firms to have the maximum notice of any change in labour costs. I would even go so far as to suggest when looking ahead to next year that the date of implementation is likely to have a bearing on the amount by which labour costs will be increased. I feel that we should give some lead to those firms who are now tendering and will be tendering over the next few months on a firm-price basis. I would very much like to be able to be precise but obviously it is impossible for anyone to say at this juncture exactly when and what change is likely to be involved. I hope, however, that I have said sufficient to guide members in their tendering policy over the next few months.

House-building and Land

Our industry has a good programme of work in hand. How long it will last will be determined in one field at least—house-building—by the amount of land which can be made available for development. We are in the midst of a land crisis, and the National Federation, recognising its imminence some time back, formed a working party to examine the whole question of land for housing. Its report was submitted to the Minister of Housing and Local Government a few weeks ago. This was followed by a deputation to the Ministry to elaborate the proposals of the report. The discussions were frank and friendly. Since then it is understood that the Minister is making some modifications in his land policy which will be of help to house-builders; in particular I would mention the question of density and staging of development. I hope you will agree that the Federation's efforts on your behalf, and on behalf of the many who desire to become house-owners, have not been in vain.

In the long term, the allocation of land between the various needs of the country—such as agriculture, education, industry, commerce, housing, transport, and defence—is outside the control of one Minister and should be treated as a Cabinet matter. If we are not to be found with constantly recurring land crises a really profound and scientific long-term investigation and assessment is required. We are shirking our responsibilities to the future generations if we do not face up to this now, and your Federation will continue to press for it. One thing is quite certain—the vilification of speculators and for that matter the nationalisation of land will not have the slightest effect on the amount of land available.

Contract Matters

In this field the National Federation has been having discussions with the Royal Institution of Chartered Surveyors on the National Schedules of Daywork Charges. Agreement has been reached on a number of amendments which are intended to clarify that document. We have also looked into the question of making a complete review of the National Schedules of Daywork Charges, but this matter is being deferred for the present in view of the proceedings pending before the Restrictive Practices Court. Here the Contracts Committee feel that the Federation should defend the National Schedules on the grounds that they are produced, in agreement with the R.I.C.S., in response to a general demand for a standard basis for the charging of daywork. To that extent they constitute a protection for the public against overcharging.

The Ministry of Works has been informed by the Federation that it is not prepared at the present time to increase the limit in the National Quantities Rule above the present figure of £4,000. The Executive Committee feel that builders' estimating costs would be increased considerably if the Ministry's suggestion to raise the limit in the National Quantities Rule to £10,000 were adopted. These costs would be bound to be reflected in higher prices for building work. In any event such an action would put a considerable burden on those very skilled members of staffs who are

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JUDGING LAND PRICES IN THEIR PROPER PERSPECTIVE

"Scarcity Created by Planners"

"THE level of land prices reached in the open market in recent months has been the subject of much comment, but I am not sure that we are judging prices in their proper perspective," stated Mr. W. Franklin Beavan, in his presidential address at the 50th annual provincial meeting of the Chartered Auctioneers' and Estate Agents' Institute, held in Bristol last week.

"There has certainly been a sharp jump in prices over a relatively short period," he said, "but looking back over the last 50 years, I doubt whether there has been any real increase at all after taking into account the fall in the value of money. I recently turned up the records of a sale of land by the Liverpool Corporation in the year 1936; five lots varying in size from one third of an acre to about three acres realised prices varying from £1,815 per acre to £4,356 per acre. These lands were all in suburban positions, sold on 999-year leases, subject to express covenants as to the erection of houses at specified densities.

"Land in the County of Lancashire selling recently at prices from £2,000 to £3,000 per acre has been regarded as making a high price. There have, of course, been sales at higher prices, but there have also been sales at less than these figures. Compared with 1936, the value of the £ today is only 6s. 9d. so that on the basis of real values, land would today have to sell at more than three times the 1936 value in order to show an increase.

"Bearing in mind the fact that land is in limited supply, is its price really high? A price of £5,000 per acre is equivalent to approximately 21s. per sq. yd. and the figure which you would be paying for the basic commodity is less per sq. yd. than the price you would have to pay for a really good-quality inlaid linoleum that you would lay on the floor of a house built on the land!

Scarcity Artificial

"If land is thought to be too highly priced today, where does the blame lie? It is neither demand nor scarcity that creates value, but it is a combination of the two—the scarcity is largely artificial and has been created by the planners. Now I know it is easy to throw stones at the planners—this has been almost a national sport for some years—but they must, I think, take the blame for having woefully underestimated the amount of land that would be required for housing development over a period of years.

"Land is grudgingly released for development a bit at a time—land is very rarely in competition with other land—it is the builders who are in competition for each bit as it becomes available. I appreciate the desirability of green belts and, speaking as the President of an Institute with both urban and rural interests, I am deeply conscious of the absolute necessity of conserving as much good agricultural land as possible, but what is inevitable must be faced.

Releasing More Land

"It is estimated in some quarters that this country may need 500,000 new houses per annum for some years to come: unless a very large proportion of our population is going to be housed in multi-storey flats, the planners will have to make up their minds to release a lot more land. If release continues to be gradual, building land prices will not merely remain at their present level but will continue to rise: possibly this is the price we have to pay for 'planning,' but I must say that it seems a curious word to use in the circumstances."

L.C.C.'s BUILDING BY-LAWS REVISION

THE L.C.C.'s building construction by-laws are being revised in the light of recommendations of the advisory committee on the control of construction of buildings in London.

In 1957 and 1958 this committee examined in considerable detail the arrangements for building control in the metropolis and specially considered the question whether there should be a uniform national system of control. They came to the conclusion that the present system by which the control of construction of buildings in London is exercised under the London Building Acts, 1930 to 1939, and the by-laws thereunder should be generally retained.

The Minister of Housing and Local Government has been considering whether the present system of locally made building by-laws should be replaced by a single set of centrally made building regulations, and the opinions of the various interested bodies and associations are being sought. The committee accordingly informed the Minister of the view of the advisory committee and intimated that they did not consider that centrally made regulations for building control would offer any improvement upon the present system in London.

The Minister has informed the council that, so far as London is concerned, he considers it desirable to defer consideration of the arrangements which should operate in the administrative county until the future pattern of local government organisation in the metropolitan area is known.

The committee hope that their revised by-laws may be before the Minister before he has completed his consideration of the proposal for centrally made regulations.

MAY HOUSING FIGURES

The number of permanent houses completed in Great Britain during May was 25,026 (compared with 22,426 in May, 1959), of which local authorities were responsible for 10,770 and private builders for 13,997.

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presently in limited supply and would seriously disturb the progressive expansion of incentive payment schemes vital to increased productivity in the industry.

I am afraid I can report little progress from the Joint Contracts Tribunal on its deliberations on the new R.I.B.A. Form of Contract. In a sense we can ourselves be blamed for this for we are steadfastly refusing to give way on a fundamental principle which we consider to be of the utmost importance to our members, and upon which we have so far been unable to convince the other members of the Tribunal of the validity and logic of our views. Nevertheless we must strive to reach agreement.

Education and Training

This unquestionably remains one of the most important fields of activity of the National Federation. To recruit the right types of young men we have a responsibility to see that the technical education and practical training facilities within our industry are of the highest order.

There has been a useful exchange of views between the officers of the Institute of Builders and the Federation and the respective fields of responsibility have been identified and mutually accepted.

The apprenticeship figures are showing an upward trend, and I hope that this improvement will be maintained. The Federation is pressing strongly for more full-time pre-apprenticeship courses at technical colleges. These courses have been very successful so far, not least because the boys taking part in them are helped to develop a real and positive interest in training for their career. This means, in the end, less wastage, both in time and in personnel, on the craft courses that follow.

Firm-price Tendering

Firm prices are being requested for most building works of any size today. It is three years since the principle of firm-price tendering for building works was re-introduced by the Government and accepted somewhat reluctantly—and perhaps apprehensively—by the industry. Judging from the experience of members since 1957, that reluctance and apprehension was justified.

The Government stipulated two conditions upon which firm prices could be invited. They were that the estimated contract period should not be more than two years, and that the works should be thoroughly planned in advance. Shortly afterwards the National Federation issued two statements on firm-price tendering which enumerated the main points to be kept in mind by building owners and their professional advisers when operating on a firm-price tender basis.

The contents of these two statements were fully endorsed by the National Joint Consultative Committee of Architects, Quantity Surveyors and Builders which issued a Procedure Note to this effect.

It is therefore, I regret to have to say, a matter of considerable concern to our membership that there is a widespread failure on the part of some building owners, particularly local authorities, and their architects to comply with either the letter or the spirit of the National Federation's statements. We have abundant evidence of failure to accept tenders quickly after they have been submitted; of delays in starting contracts after acceptance; of substantial alterations of schemes *after* acceptance of tenders, and, last, but by no means least, of only half-hearted attempts at planning in advance and of providing proper and reliable documentation.

The result of these shortcomings is, inevitably, that the public are having to pay more for their building work than they need. Private building owners may be indifferent; that is their concern. But in the public sector, which includes the work put in hand by local authorities, ratepayers will find little in this state of affairs which is satisfactory.

Architects and other professional advisers of building owners must clearly recognise and act upon their responsibilities in this connection—otherwise the benefits which firm-price tendering can bring are bound to be lost.

The matter is so important that the National Federation has pressed the National Joint Consultative Committee to issue a further document stressing once again the fundamental principles upon which invitations for firm prices for building work must be based.

Builders themselves must ensure that if, indeed, the pre-contract conditions are faithfully observed by the building owner and his professional advisers then they, the builders, must keep to their part of the bargain and see that the work is properly planned and carried out as expeditiously as possible. It is useless to have full documentation if the recipient is ignorant of how to put it to its best use.

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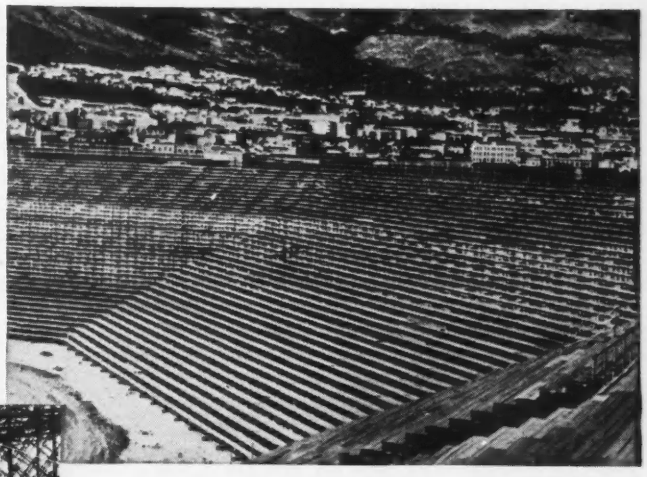

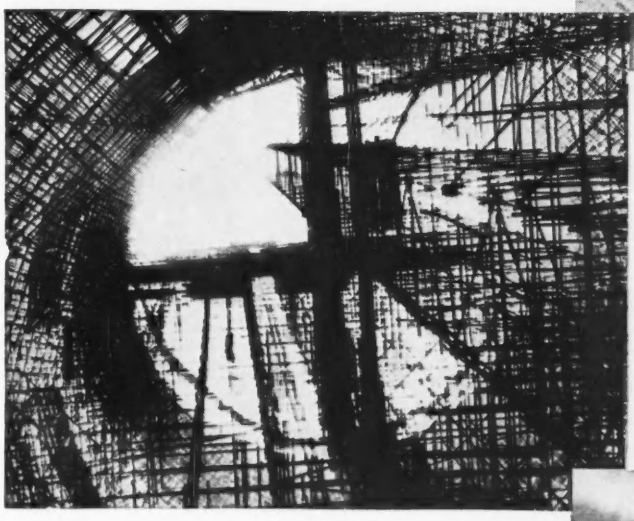

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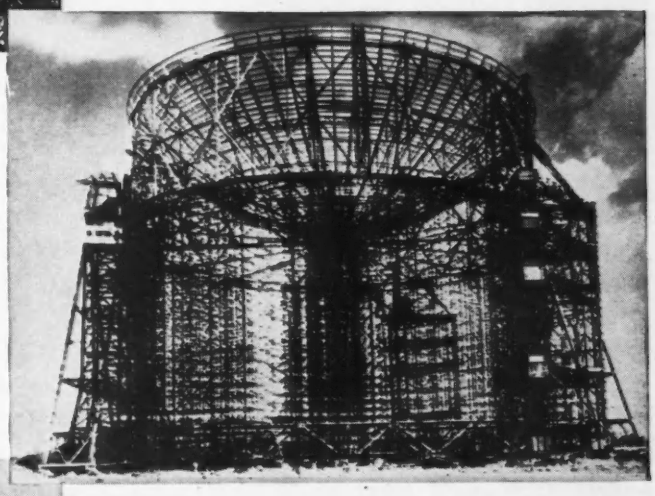

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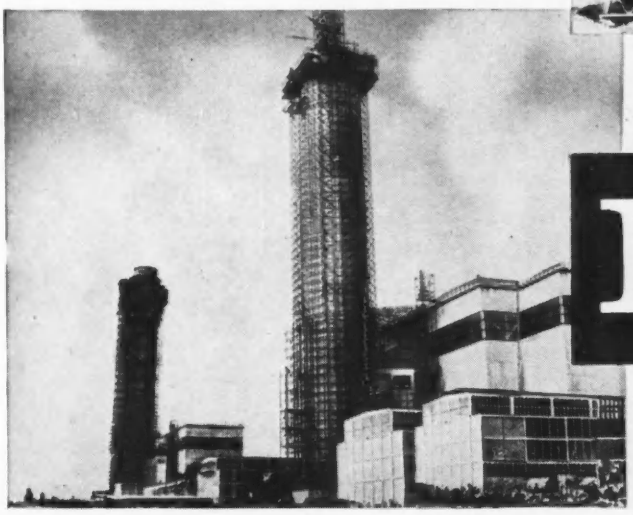

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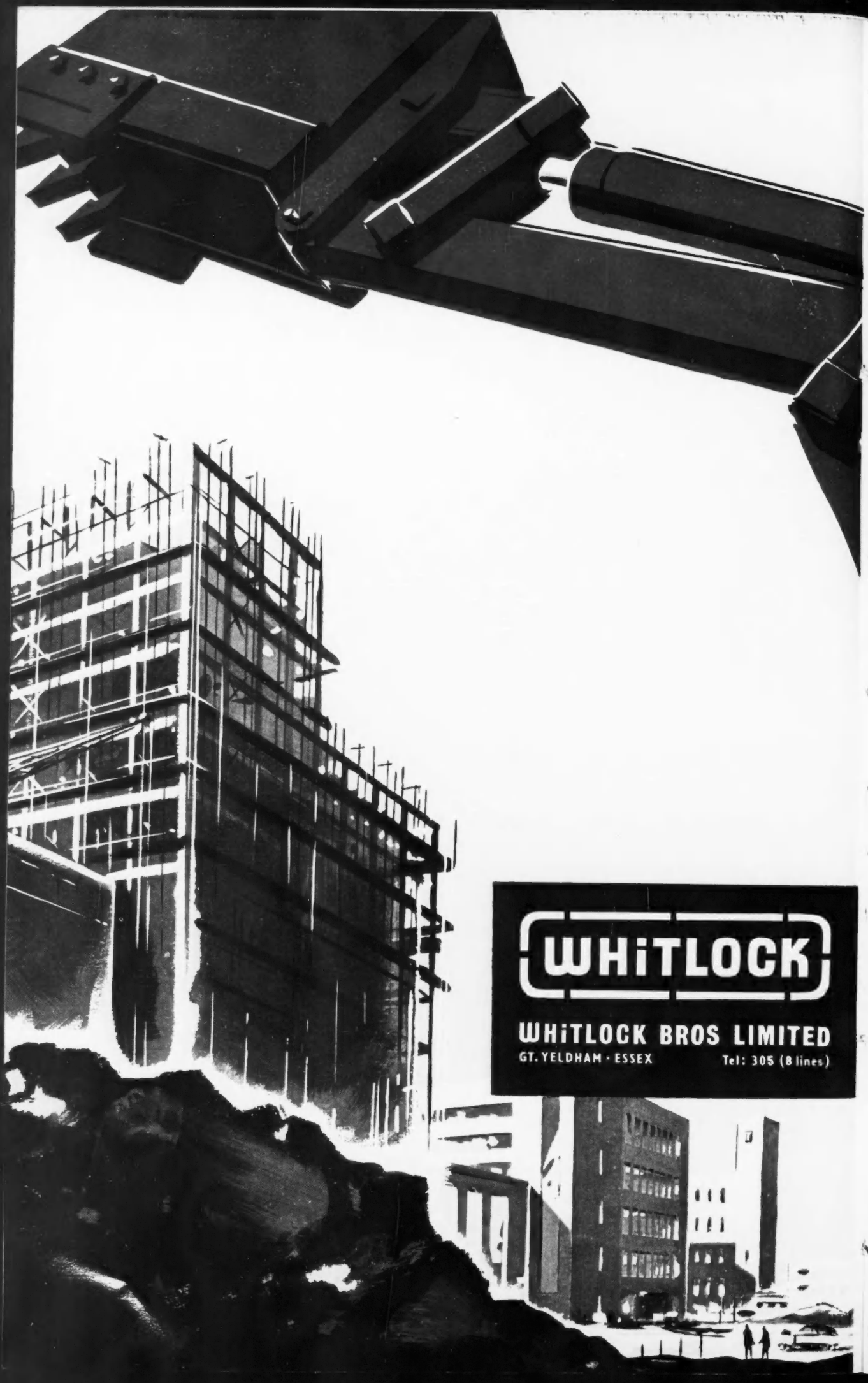
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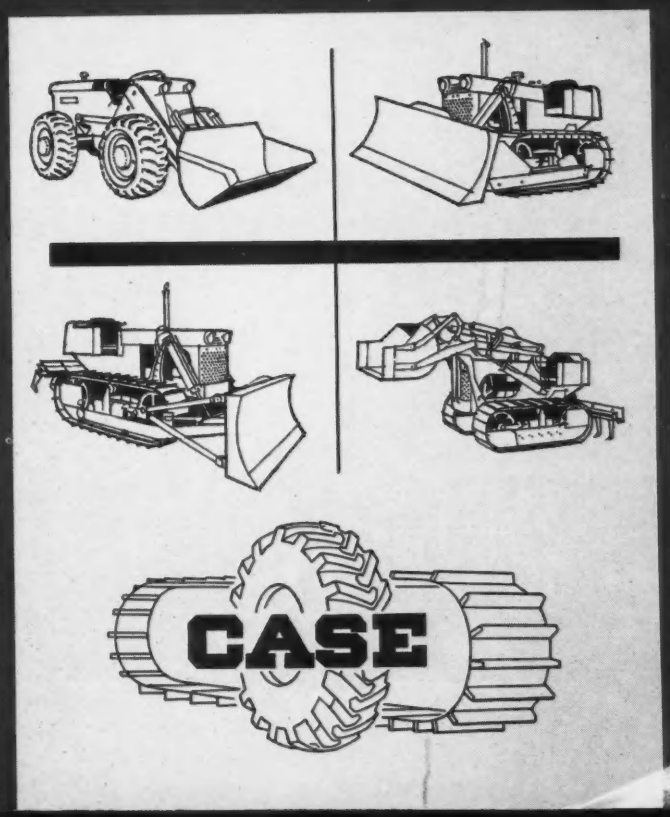

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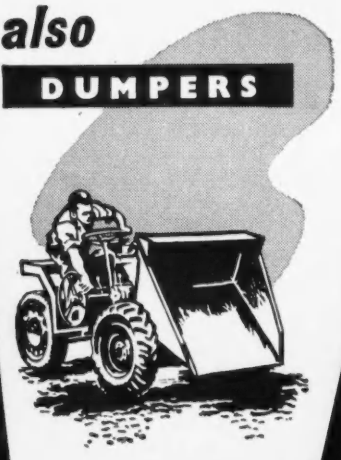

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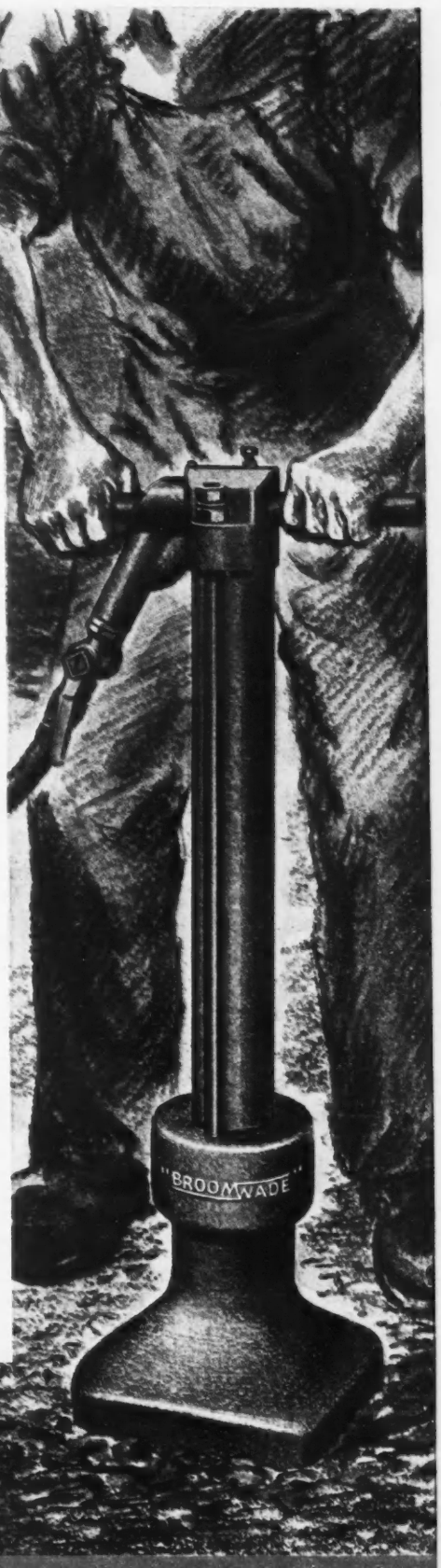

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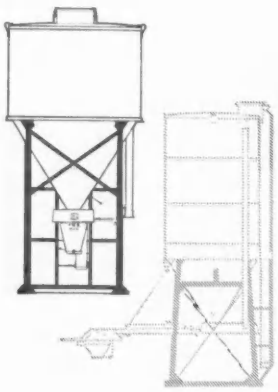

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BUILDERS AND THE FUTURE

Peter Trench Looks at the Activities of the N.F.B.T.E.

"IF ever an industry had good reason to look at the future with confidence then that industry is ours," said Mr. Peter Trench, O.B.E., director, National Federation of Building Trades Employers, in a Paper presented at the half-yearly meeting of the Federation held in London last week.

"Vicissitudes we shall always have, for do not let us delude ourselves that we can contract out of our responsibilities within the national economy itself. Nice as it would be to have the best of all possible worlds, we must be realists. If you accept a capitalist regime with some degree of control instead of a planned totalitarian one with complete control vested in the State, then you must accept the disadvantages as well as the advantages; trade cycles of varying degrees of intensity are among them.

PETER TRENCH

"But let us not forget one thing. The building industry is so immense and its ramifications so great that in a tight-rope economy such as ours it can itself influence that economy for good or evil."

Introducing his Paper entitled "The N.F.B.T.E. and the Future," Mr. Trench said that from small beginnings the National Federation had grown to an organisation now accepted internationally as well as nationally as the representative body of building employers in England and Wales and as such it had assumed responsibilities not only for its members but for a great part of the commercial side of the whole industry.

Referring to their international activities, he said he was of the opinion that the time was fast arriving when the N.F.B.T.E. should treat these activities less on an *ad hoc* basis and more as part of their day-to-day organisation.

Building Out in the Cold?

Turning to domestic matters Mr. Trench said:—

It can be said that our liaison with the Ministry of Works is first class, but here we face a conundrum. Nobody is a greater opponent than I am of interference in private enterprise industry by government—not from a political standpoint but solely because I believe that in a capitalist economy—and that is what we have here—industry is, with certain reservations, best left alone to manage its own affairs. Having said that, however, I have to admit that I am also a realist and that in this day and age when such industries as the motor car industry, steel, the export industries in general, aircraft, transport and, above all, agriculture receive financial and technical assistance from government departments, I wonder sometimes whether the building industry is not being left out in the cold.

M.O.W. Influence Declining

Is it perhaps that our position in the economy and our influence on economic affairs is underestimated at top level? Is it based on a fallacy that we are a sheltered industry and contribute little to exports, or is it a failure on our part to shout loud enough in the past? Whatever it is I get the impression that the strength and standing of the Ministry of Works, which has so gallantly sponsored us since the war, is on the decline. I say this with some sadness for we have some very good friends in the Ministry of Works, and the two Ministers with whom I have had dealings could not have had the industry's interests more at heart.

Where then can a strong Ministry help us most? I suggest in two respects. First, and rather intangible, to safeguard our position vis-à-vis the financial and fiscal economic policies of any government. This requires above all statistical and economic evidence as well as a deal of research which can best be obtained by a Government Department. How much can we as a country afford to spend on construction and how do we compare with the other great nations of the world? We ourselves are working on this question and I believe that the results will be of more than academic interest; they will certainly surprise a few people who think that we already spend too much on construction! What too are the true and long-term effects of fluctuating interest rates on the industry? How in its turn does the industry contribute to inflationary tendencies? What is its true composition? How does it affect and how is it affected by the National economy in general?

Helping Technical Efficiency

Secondly, but more intangible, a strong Ministry of Works can help the industry—and for that matter the nation—in respect of technical efficiency. Building Research has been passed to the D.S.I.R. under the Minister of Science, and there is a strong tendency even here to throw some of this as well as all the rest of the present Ministry of Works Technical Service on to the shoulders of the industry. Now it may well be that in due course, possibly sooner than some of us think, this heterogeneous industry of ours, made up of so many sections and interests, and firms of such incredibly different outlook and size, can take over its own technical service and thereby benefit not only itself but, more important, the building owner, but I do not believe that that time has yet arrived.

The transition period, possibly quite a long one—should be one in which industry and Government proceed together and evolve a *modus operandi* to the benefit of all concerned, particularly the building owner. And who is the building owner that will benefit most from a technically efficient building industry? Why, the very people who are now contemplating divesting themselves of the responsibility—the government departments, public and local authorities, for it is they who pay, out of the public purse, some half of the total amount spent on construction. How much then can the public purse afford in order to reduce building costs by only 5 per cent? If it spent £10m. it would still be in pocket.

Technical Service Going?

But we must plan on what we know to be happening and not what we wish to happen, viz., that the Ministry of Works is contemplating relinquishing its Technical Service and that, to put it at best, the voice of the industry at top level will be no stronger than before. With this in view we have already laid the foundations of a Federation Technical Service, and now we must plan its growth. The long-term amalgamation of the Building Advisory Service and the Federation Technical Service is to my mind inevitable, and to this I would add that the production and distribution of information of a technical nature, including educational managerial matter on the lines of APPROBA in France, should be given far greater prominence in the future than in the past. The Federation must face up to its growing responsibilities for technical as well as managerial education, for even were there to be a change of Government policy regarding the technical service of the Ministry of Works, I believe it to be a role of the Federation to promote progressive technical thinking among its members and to provide them with information on all technical advances.

Making Builders' Voice Heard

With regard to our voice in government circles, this is to a certain extent a matter of good public relations as well as the judicious use of parliamentary spokesmen. While not forgetting that our friends in the Civil Service (and in the main they are our friends) remain while politicians may come and go, we should not be afraid to use our politically elected representatives to plead our cause when the circumstances warrant it. I believe we have the finest public relations department of its size in any industry, but its task is truly herculean. Let me give you just three examples where, had we the resources, we could make a greater contribution in our dealings with the general public and our professional friends. First the status of the builder, secondly the thorny problem of direct labour, and thirdly the land crisis. I would add too, not as an afterthought, one further subject which constitutes one of the industry's biggest problems, viz., the weaknesses of the system of competitive tendering.

Mind you, not all the public relations in the world will help the status of the builder if he does not deserve a higher status than is at present credited to him, but I really do believe that the label so often found tied round his neck is no longer merited, certainly not in some sections of the industry. In this conext is it worth having a new look at Registration? Our campaign against direct labour is, as much as any thing, a public relations campaign to make known to those who foot the bill the cost as well as the political implications of municipal trading. And on land I shall say no more than that if builders had the same public relations as farmers some of the headlines in the papers would read very differently.

Relationship With Professional Bodies

In looking at the future activities of the Federation it would be quite wrong not to consider for a minute or two our relationship with the professional bodies. It is my own view that the setting-up of the Joint Consultative Committee was one of the most important steps for the industry taken over the past decade. This tripartite forum, so ably handled in its chairmanship by one of our own past presidents, has forged bonds between the architect, quantity surveyor and builder entirely absent in the past.

Its future depends on two main factors; the support it receives from the R.I.B.A., the R.I.C.S. and the N.F.B.T.E., and the weight given to its decisions. It is imperative in my mind that the three bodies concerned should be represented on the J.C.C. by their most able members and, moreover, that a decision taken by its members should be accepted and respected by their respective organisations as being worthy of support. If the J.C.C. confines itself to those activities so obviously within its province and discussed at the recent meeting of Regional J.C.C. Representatives, and if it is composed of the best representatives that the industry can produce, then its findings should receive national recognition and acceptance and its contribution could be immense. To this end the National Federation should support it to the hilt.

In the same way should we continue our studies of the problems of joint education in a co-ordinated endeavour to produce more capable leaders of the industry. We should not, however, underestimate the

(Concluded on page 193)

In Parliament

FREE MARKET IN LAND TO REMAIN

Green Belt Policy Unchanged

ANY idea that the Government might alter the policy of a free market in land, or change the policy affecting existing green belts, was dispelled last week by the Minister of Housing and Local Government, Mr. Henry Brooke.

In a written Parliamentary answer, he informed Mr. Deedes that green belts, once properly established, should, except in very special circumstances, be maintained inviolate; he believed that they would be so maintained over the years. It was, therefore, most important to make sure that the land to be reserved for green belts should be decided upon initially with care and discrimination.

The right principles were that a green belt should be established only where there was a clear need to contain the growth of a town within limits which could be defined at the time; and the limits of the belt should be carefully drawn so as not to include land which it was unnecessary to keep permanently open for the purposes of the green belt.

Further, where a town was to be closely circumscribed by green belt, proper provision must be made for development beyond the green belt. This was a matter which local planning authorities examined when reviewing their development plans, and which it was his policy to take into account when considering and approving them.

On the shortage of land for building, the Minister told Mr. Skeffington and Mr. W. Hamilton that he was asking local authorities, in the reviews of their development plans, to allocate more land beyond the green belts. In addition, he was seeking to encourage the fullest use of land within the urban areas.

However, we had to face the fact that the demand in and around the most prosperous towns would continue to exceed the supply, unless we were to abandon planning policies of restricting the growth of towns, preserving good agricultural land and protecting the countryside, which he was not prepared to do. This meant that builders must turn their attention increasingly to redevelopment of older areas within the towns, which was our chief need.

He was not prepared to modify the policy of a free market in land, without which we should not have had the vigorous building progress of the last few years. What the situation called for was administrative action of the kind he had described, rather than more legislation.

Birmingham-Preston Motorway

Sir B. Craddock asked the Minister of Transport if he was now in a position to state when work on the Lancashire section of the Birmingham-Preston Motorway would be started.

In a written answer, Mr. Ernest Marples replied: I expected that work would begin this summer and regret that there will now be some delay. The Lancashire County Council, as my Agent authority, invited tenders for two contracts for the 26 miles between Preston and Warrington. Three firms submitted tenders for both contracts and a fourth firm for one contract only.

The average cost per mile in the lowest tenders proved very much higher than for the sections of motorway elsewhere. The Lancashire County Council is of the opinion that this may be mainly due to poor soil conditions, to the presence of mine workings (both of which would necessitate heavier excavation than usual and the import of large amounts of fill) and to the cost of drainage in an area which is largely built up.

The additional cost would, however, be so substantial that I have asked for a review of the particulars of the contract documents which were issued to tenderers in order to see whether savings could be made without departing from the basic specification. The review will be carried out, as a matter of urgency, by officers of my Department, the Road Research Laboratory, and the County Council. I hope that, following this review, I shall be able to authorise the Lancashire County Council to invite fresh tenders for the motorway later in the year.

British Embassy, Brasilia

Asked by Sir L. Plummer what plans he had for the building of the British Embassy in Brasilia, the Minister of Works, Lord John Hope, replied that the Government of Brazil were presenting a site to H.M. Government for the embassy residence and the chancery offices. His permanent secretary and chief architect had recently visited Brasilia and he was now considering how we should proceed.

Renfrew Airport

Questioned by Mr. W. Ross about the future of Renfrew Airport, the Minister of Aviation, Mr. Duncan Sandys, said that the surrounding buildings and docks would make it difficult to provide satisfactory facilities to meet the anticipated future requirements of air traffic.

He was therefore considering whether a suitable airport for Glasgow could be provided elsewhere, possibly at the Naval Airfield at Abbotsinch, in the event of the Admiralty deciding to give it up. In any case, Renfrew Airport would continue in operation for the next three years.

Land (Use)

Mr. Hocking asked the Minister of Housing and Local Government; in the development plans approved to date, how many acres of land, had been designated for residential purposes.

Replied the Parliament Secretary, Sir Keith Joseph: I regret that this information is not available. The main county plans do not indentify the land to be used for housing; they show the planning authorities' proposals in broad outline only. Town maps are prepared for areas where substantial development is expected—and for all the county boroughs—and these do identify the land to be used for housing; but such maps have not yet been produced for all expanding areas; they are constantly being added to and modified and they can never cover all the land on which housebuilding will be allowed.

LAND POLICY: N.F.B.T.E.'s STATEMENT

Following the Minister of Housing's statement in the Commons on the Government's policy regarding green belts and land for building, the National Federation of Building Trades Employers said:

The Minister has given a clear lead to local planning authorities. They must examine his remarks in the light of the urgent need to allocate more land for building purposes.

While accepting the green belt principle, the Federation agrees wholeheartedly with the Minister that careful consideration should be given to the geographical details of any land so designated, and to any proposals to extend green belts without considering what alternative land is available to those seeking to own their own homes.

At the moment, there are too many planning authorities who do not wish to make available more land for development. There is one county planning authority, for example, which is proposing virtually to turn the whole county into a green belt.

The Federation is also concerned lest the action by planning authorities as a result of the advice of the Minister will be too slow to meet the immediate requirements.

The Federation's concern about land is based on the fact that it is a prime commodity. Without it there can be no building of houses, factories, schools or hospitals or anything else. Land is also the principal stock-in-trade of builders, and its efficient and economical usage is vital to the nation.

Therefore, the Federation urges that the time has come for the Government to carry out (a) a careful and scientific assessment of the land needed by the nation for development purposes over the next 20 years; and (b) a factual survey of the land that is likely to be or can be made available.

R.I.B.A. President's Comment

Further comment on the Minister of Housing's statement came from Sir William Holford, president of the Royal Institute of British Architects, who said:

Mr. Brooke's statement is welcome in so far as there is to be no panic dismemberment of the green belts in response to the pressure for more building land. But that is only half the answer, and he has not given us the other half. Leapfrogging the green belts and building beyond them will raise the price of land beyond the green belts, and exacerbate and lengthen the journey to work in the centre. There is need for urgent and fundamental re-examination of the whole problem of future urban development and its effect on the countryside if we are not to run into even more serious trouble.

I am disappointed that Mr. Brooke sees no need to consider some action, fiscal or otherwise, to prevent the more extreme forms of exploitation of the undoubted scarcity of land—a scarcity that will always be with us. There is a limit to what most people can afford to pay for houses, and the more they pay for land the less there is left for the house. At the present fantastic prices it is becoming impossible to satisfy the demand without reducing standards of space and amenity, and lowering the standards of building. Good town planning becomes impossible when high prices, such as the £250,000 paid for about half an acre at Luton, compel the planning authorities to do what is financially possible, not what is socially desirable.

CAR PARKING PROBLEM

Municipals' One-day Convention

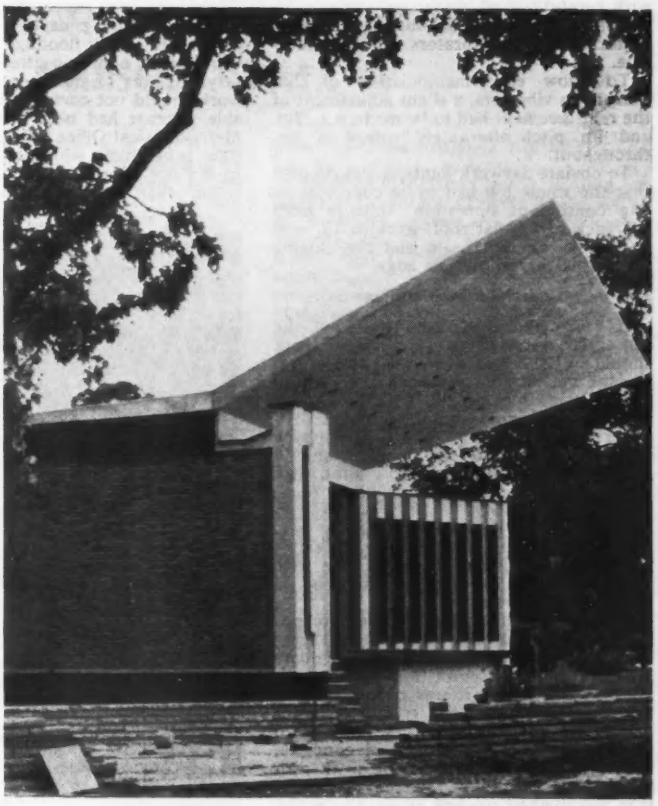
Mr. John Hay, Joint Parliamentary Secretary, Ministry of Transport, is to open a one-day convention on parking arranged by the Institution of Municipal Engineers, to be held at the Caxton Hall, Westminster, London, S.W.1, on October 6.

The provisional programme shows that four Papers are to be presented and discussed. "Traffic and Parking Problem," by J. L. Beckett, city surveyor, Leicester; "Control of Street Parking," by A. W. Hogg, city engineer, Westminster; "Rooftop Parking and Mechanical Parking," by Granville Berry, city engineer and surveyor, Coventry; and "Parking Problems at Seaside Towns," by D. J. Howe, borough engineer and surveyor, Brighton.

An exhibition of various types of multistorey, underground and other types of parking garages will be on show at Caxton Hall during the convention. These models and photographs will consist of extracts from the British Road Federation's Car Parking Exhibition held in London in March.

UNUSUAL DESIGN OF FULHAM OPEN-AIR THEATRE

75-ton Cantilevered Canopy



Side view, showing the cantilevered canopy

STRIKING feature of a new open-air theatre built in Bishop's Park, Fulham, for the Borough Council, is a cantilevered reinforced concrete canopy which weighs 75 tons and projects 25ft. over the front of the stage.

Measuring 14in. thick at its support and tapering at an upward angle of 22 degrees to only 4in. thick at the free edge the canopy presented several problems in design and construction. Apart from the allowances to be made for the variation in thickness, due regard had to be paid to the reduction in width from 65ft. at the free edge to 40ft. at the supporting beam where the maximum bending moment occurred. Total weight of the main roof is 120 tons.

Consideration of wind conditions called for a wind velocity of 54 m.p.h. to be incorporated in the design, with a pressure increase due to local effect and the large funnel shape of the opening and, in addition, the roof was designed for the standard 15lb. per sq. ft. superload.

The design was based on a nominal 1:1½:3 mix with a working stress of 1,250lb. per sq. in. White Portland cement was used, with a light coloured aggregate. The reinforcement was Square Grip twisted bars throughout with a working stress of 22,500lb. per sq. in. The stress in the steel was reduced from the normal 30,000lb. per sq. in. so as to increase the inertia and reduce the tension cracking of the concrete.

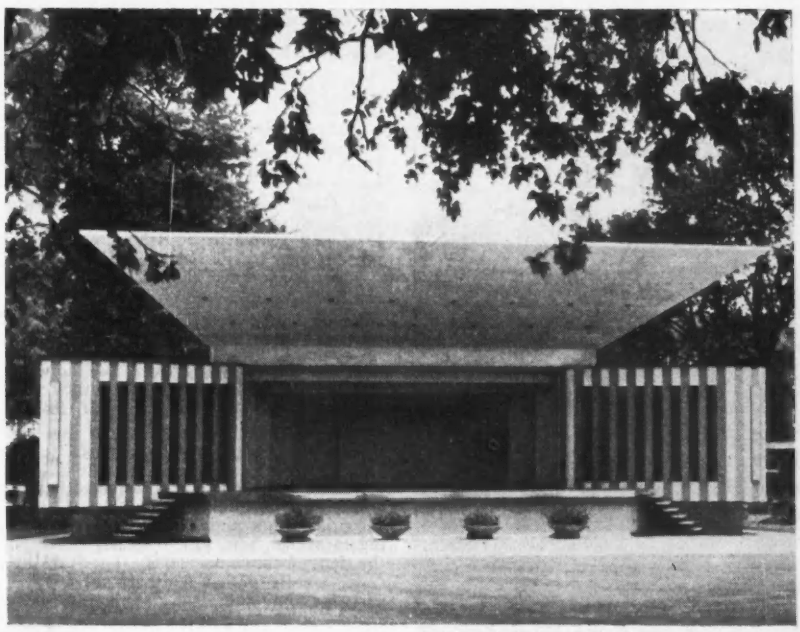
As the hood and back roof would be visible from the rear of the theatre it was decided that the appearance would be marred if finished in asphalt. For the same reason the underside of the hood was not to be rendered or painted.

The shuttering was constructed with ¾in. Gaboon faced resin-bonded plywood boards cut on site to give a radiating pattern should the joints show. The edges of the boards were planed and fixed together by screwing to 5in. by 1¼in. wrot boards on the underside. The screws were driven from underneath so that no marks would show and the whole of the formwork was fixed to timber runners on a specially designed braced steel scaffold.

With regard to the reinforcement, the problem of spacers to the bottom layer was overcome by the use of hardwood bearers which were affixed to stout wire and drawn up as the work proceeded and the top layer of reinforcement was very rigidly fixed in position by steel chairs or spacers at fairly close centres. It was necessary for this top layer to be rigid, since it had to support the weight of the workmen during construction without distortion. Timber screeds were wired to these bars at 3ft. intervals and removed as the work proceeded.

The reinforcement to the canopy was designed to radiate outwards, the space at the base being approximately 3in. pitch opening out to 5in. pitch at the free edge.

Placing the concrete on a slope of 22 degrees presented quite a problem and called for it to be vibrated. A perfectly smooth soffit was required which tended to indicate a fairly wet concrete, yet the concrete had to be stiff, otherwise it would tend to run down the slope instead of remaining in position during the concreting operation. A test panel was constructed and the correct water/cement ratio was decided by experiment. It was found that



Front view of the completed building

with careful use of immersion vibrators, a smooth soffit could be obtained without requiring surface vibrators on the underside.

To allow easy manipulation of 2in. immersion vibrators, a slight adjustment of the reinforcement had to be made, e.g., 2in. and 4in. pitch alternately instead of 3in. throughout.

To obviate daywork joints, it was decided that the whole job had to be concreted in one continuous operation, starting from the back of the flat roof, working forward to the proscenium beam and the sloping hood finishing at the top edge.

Construction Planning

It was decided that the whole of the aggregates necessary to complete the work should be delivered from the same pit to the site before work commenced to ensure against variation in colour and texture; that there should be two weighbatch mixers either side of the site discharging into skips and that the concrete should be lifted into position by two cranes, with 75ft. jibs, so placed that each could reach one half of the roof.

Four electric immersion vibrators were used, each with its own motor and flexible drive to be in use at the same time with two additional vibrators standing by in case of breakdown.

The method of placing the concrete was important. It was not to be dropped from the skips because of the risk of inadequate vibration at this point and consequent honeycombing, and it was decided it had to be heaped on to the completed work and by means of the vibrators, flowed into position to form a "wave" of concrete, steadily moving forward as the work proceeded. It was found on the test panel that this method worked efficiently up the 22 degree slope, as well as along the horizontal. The flowing action would eliminate air or water bubbles on the surface finish.

The concreting was to be done in strips about 2ft. wide working across the job, so that as each successive strip was concreted, the preceding strip would be sufficiently stiffened with the initial set and enable work to proceed up the slope without sliding back of the completed concrete.

The upper surface of the concrete was to be screeded off on the screeds wired to the top reinforcement. The screeds then removed, the grooves filled in and the surface finished off by a plasterer.

To preserve the continuity of work, there could be no stoppages, tea breaks or lunch intervals, and it was decided to arrange the men in shifts with additional reliefs standing by.

Whilst it was expected to complete the concreting during daylight hours, it was decided to install floodlighting so that the work could continue after dark if necessary. It was originally intended that the work should not commence until a favourable forecast had been received from the Meteorological Office but, in the event, the tight programme which had to be worked to did not allow of this and a chance had to be taken on the weather.

Steel reinforcement for the roof structure

Because the majority of the stresses would be developed due to the self-weight of the cantilever roof, it was originally intended that the shuttering would not be struck until 28 days after placing, but again arising out of the tight programme and to catch up on schedule, it was agreed that the striking time would be determined by the results from 12 test cubes taken from the work as it proceeded, tested in batches of three at 7, 14, 21 and 28 days.

Concreting Operation

When everything was ready and approved, the concreting work was commenced and four site engineers, supported by the clerk of works and the general foreman, meticulously supervised the entire operation.

Unfortunately, everything seemed to go wrong. The rate of progress was considerably slower than had been anticipated. One of the weighbatch mixers developed a mechanical fault and was out of action for several hours. By early evening, only 40 per cent. of the work had been completed and the difficult concreting up the 22 degree slope had still to be done.

Rain started and remained continuous throughout the night and one of the cranes broke down at midnight and was out of commission for several hours.

In spite of these obstacles, the work continued and the concreting was finally completed in a thunderstorm at 8 o'clock the following morning. The operation had taken 25 hours of continuous working under the worst possible conditions.

The cube strength at seven days proved to be 4,647lb. per sq. in. average and at 14 days, 5,847lb. per sq. in. average, and it was therefore decided to strike the shuttering three weeks after casting, by which time the cube strength was 6,720lb. per sq. in. average.

The actual method of striking posed problems of possible undue stresses in the concrete and/or the tubular scaffolding, and it was decided to release the weight by gradually winding down the props on the steel jacking threads provided. In this way, the whole of the shuttering was gradually lowered in accordance with the calculated deflection for the cantilever of approximately 1in. at the apex.

Immediately the shuttering had been lowered free from the roof, a "rough and ready" loading test was carried out by mustering 30 men to walk up the slope and stand on the apex. The deflection was measured with a steel tape and dumpy level and found to be 1/32in. which was proportional to the designed deflection.

The surface finish of the underside when exposed showed some slight staining, probably due to the action of the mould oil on the plywood, but on washing over with a detergent, this staining disappeared. Except for this washing over, the concrete canopy and back roof stand as they were left by the shuttering, without making good or any applied finish.

Theatre Design

The theatre, which with a paved seating area cost approximately £17,000, replaces a Victorian bandstand. The proscenium opening measures 32ft. 6in. by 12ft. 9in. high, the depth behind being 16ft. The forestage depth is 14ft. with a width at the front of 43ft. 6in., and the stage floor is 4ft. above ground level.

Generous provision is made in the wing

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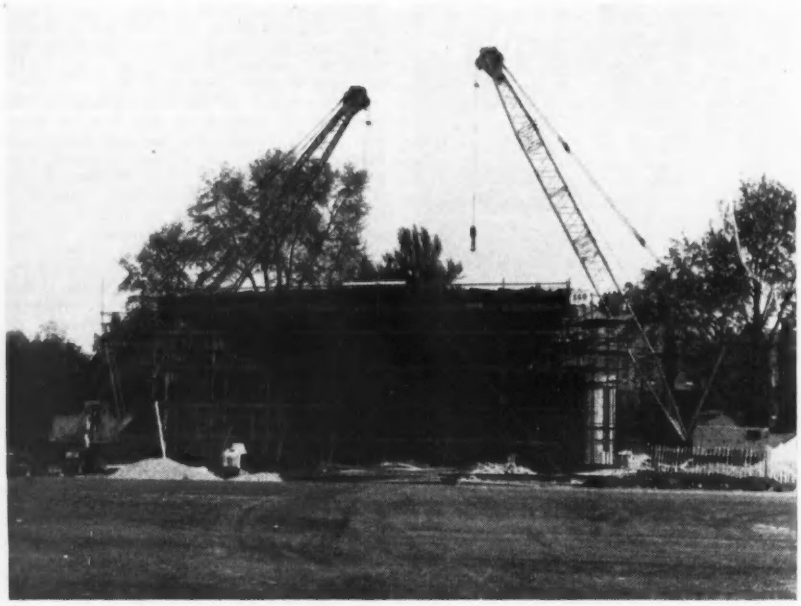


Staging and equipment ready for the concreting operation

MOBILE SHUTTERING UNIT USED TO BUILD 18FT. HIGH PRISON WALL

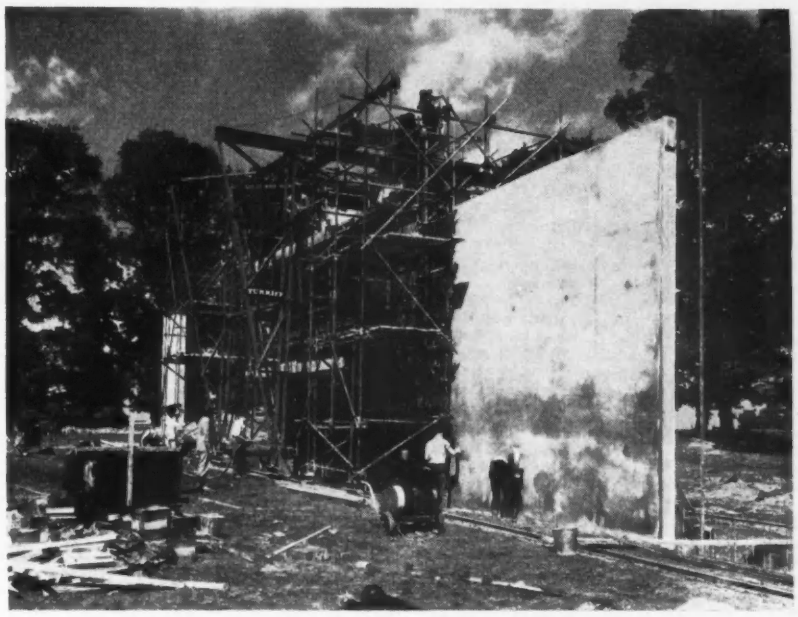
THE security wall surrounding the new Grendon Psychiatric Prison, now being built for H.M. Prison Commissioners, will be 18ft. high, nearly 3,000ft. long, and is being constructed in one continuous plane throughout its length.

Being a reinforced concrete structure, the wall is only 9in. thick. The shuttering which forms the mould into which the concrete is placed, is of steel and is in the form of a complete unit travelling on rails. The wall is being built in bays, 20ft. long.

Before the shuttering unit is moved into position for concreting a bay, the base of the wall is first built with, above it, the steel reinforcement to be incorporated in the bay. After the shuttering is set in position and securely bolted, the concrete is elevated by hoists set on the framing and discharged into the shuttering. The placing of the concrete is continuous and is completed in one operation for the full height.

Compaction of the concrete, over which great care is needed because of the height and thinness of the wall, is by electric vibrators of the submerged poker type. These are gradually raised as the concrete placing continues.

The top of the wall will be surmounted by a precast concrete coping. It is anticipated that one complete bay of the wall will be concreted each day.



The mobile shuttering unit, with one bay of the wall completed

Grendon Psychiatric Prison is sited adjacent to Grendon Hall Open Prison, which is between Aylesbury and Bicester. Recently, the Home Secretary, Mr. R. A. Butler, laid the foundation stone of the establishment, which is expected to be occupied early in 1962. The estimated cost of the development, including accommodation for staff is £1,140,000.

The scheme has been designed by the chief architect's division of the Ministry of Works (senior architect, Mr. E. R. Brown, F.R.I.B.A.) in consultation with the director of works, Prison Commission.

The layout is in two main groups—the prison compound and officers' housing. Turriff Construction Corporation, Ltd., Warwick, are the main contractors for the compound buildings. The staff houses will be built on a separate portion of the Grendon Hall estate on a site covering some 15 acres. It is proposed to build accommodation for 116 officers, with a hostel for 24 single personnel.

Buildings within the compound have been designed to give the necessary strict security required. Apart from their individual and special security arrangements, they are to be linked by continuous closed corridors.

The buildings include: a single-storey visiting and reception block; large administration building; assembly hall; two-storey hospital building; out-patients' block; five single-storey buildings, with a total floor area of 13,750 sq. ft. to house stores, workshops, etc.; laundry; central boiler house; kitchen; two four-storey cell blocks, each self-contained with dining rooms, stores, etc.; and a boys' holding and admission block. A two-storey building in its own compound with accommodation for 25 women prisoners is also to be provided.

The buildings are being constructed in the main of load-bearing brickwork with reinforced concrete floors and roofs. External facing bricks have been selected for colour offering variation throughout the compound. The windows are specially designed for security, as are grilles, gates and doors.

SCHOLARSHIPS FOR HIGHER DIPLOMA COURSES

The National Joint Apprenticeship Board for the Building Industry has confirmed the award of its 1960 Scholarships for Higher National Diploma Courses for Building to the following registered apprentices:

N.J.A.B. Scholarships—William P. Drost (carpenter), trained by E. Turner and Sons, Ltd., Cardiff, and studying at Llandaff Technical College, Cardiff; David J. G. May (carpenter and joiner), trained by Mr. J. R. Cory, East Wittering, Sussex, and studying at Municipal College of Technology and Commerce, Boscombe, Bournemouth.

The Building Centre Scholarship—a scholarship for a Higher National Diploma Course, additional to those previously announced, has been awarded to John M. Ashworth (carpenter and joiner), trained by Wm. Thorpe and Son, Ltd., Manchester, and studying at Manchester College of Building.

Plasterers' Scholarship, sponsored by The British Plaster Board (Holdings), Ltd., in conjunction with the National Federation of Plastering Contractors, has been awarded to Peter Robinson (apprentice plasterer), trained by William Cowlin and Son, Ltd., Bristol, and studying at the College of Technology, Ashley Down, Bristol.

COST PLANNING REPORT

A report has now been published on the first post-graduate course in cost planning held in November of last year. The course was sponsored by the Quantity Surveyors' Committee of the R.I.C.S., and by the Cost Research Panel of the Institution and administered by the L.C.C. Brixton School of Building.

Copies of the report are available at a cost of 20s. each post free. Special arrangements will be made to supply copies at a reduced rate of 12s. 6d. each post free to colleges and schools.

The second course in the series was held in May of this year and further courses are being arranged for principals and senior assistants who are engaged in cost planning duties.

BUILDING CRAFT APPRENTICES' SCHOLARSHIP

The Council of The Building Centre, of London, has in conjunction with the National Joint Council for the Building Industry, agreed to sponsor a scholarship for a Higher National Diploma Course, or a Diploma in Technology Course in Building, for building craft apprentices. This scholarship will be offered annually for competition.

(Concluded from page 189)

problems facing the architect today in this field as well as others. It is in the interests of all of us to help him in any way we can in his attempts to become more efficient. Could we perhaps take the initiative in bridging the gap between the Board of Architectural Education and the Board of Building Education?

Industrial Relations

In the field of industrial relations, the Federation has an outstandingly important part to play. The attitude of "them" and "us" is changing. Neither the operative nor the employer can do without the other and together we must face the future, for together we comprise one of the nation's most important industries.

The trade unions have their problems of demarcation and control, we have our problems of cost and productivity. These problems can be solved jointly. Let neither the trade unions nor the employers' organisations think that to discuss each other's problems is a sign of weakness. The first step of course is to appreciate the problems of the other, and a little joint research into chips on shoulders and traditional beliefs would do no harm. This can best be done by close and permanent but not always formal liaison. Such liaison is the prerequisite to successful negotiations, and if it does nothing else but establish mutual trust it will be well worth while.

John Sumner's Notebook . . .

THE amount of land available for future development continues to be the topic of the hour, with both the general public and the professional and industrial interests concerned. The builders were the first to draw attention to the matter through the publication by the N.F.B.T.E. of the report on Land for Housing prepared by a special working party set up to examine the problem. This was rather a natural sequel to a lively discussion on the subject at last autumn's house-builders' conference in London.

The Royal Institute of British Architects had a wonderful opportunity to follow up on the issues involved at the recent British Architects' Conference at Manchester. The chance was allowed to slip by. Instead, there was a rather hysterical outcry about green belts which is unlikely to achieve anything other than obscure the real problem—how to find more land for buildings which, in the interests of the national economy and of the public, are urgently needed.

I mentioned a fortnight ago the sensible approach to the problem made by N.F.B.T.E.'s Working Party. Their thinking has been carried a stage further by some realistic comments by Mr. Eric C. Dee, the President of the Incorporated Society of Auctioneers and Landed Property Agents. Whilst recognising the importance of green belts as a principle in planning, he asks: "How much longer can they survive, at least in their present form and subject to present regulations, with land prices now soaring to such unrealistic heights? Will we be obliged in the end to abolish the belts? To do this would be a retrograde step. Or will they have to be curtailed? Again, it would surely be a retreat. Or will the best solution be to site them differently?"

Mr. Dee suggests an idea which has been in the minds of many who have been wrestling with this land problem, although hitherto I have not seen it in print. He puts forward the suggestion that instead of being, as now, geometrical rings cutting through urban, or, for that matter, rural areas regardless of the purposes for which the land might otherwise be used, might not green belts be broken up into areas or stretches of land more closely related to needed land use?

A possibility here is that areas of "green" land be sited along the major highways which, as Mr. Dee points out, are themselves a sizeable and growing element in the overall demand for land. However, the whole subject is so complex that some drastic re-thinking, by the Government and by the individuals and organisations concerned, is needed. Mr. Dee has indicated one way in which thoughts might usefully be turned.

A MONTH or two back I commented upon a local authority which decided to advance loans to people wishing to buy their own homes at interest rates which were bound to show a loss to the council. It is gratifying to note that this matter has been taken up by Mr. E. R. Bowyer, the president of the Federation of Registered House-Builders, and his Council, who have brought the matter to the attention of the Ministry.

They have pointed out that the arrangement is obviously contrary to the intention of a circular issued under the Housing Acts by the Minister on the sale and leasing of houses. This circular, while not specifically prohibiting such a practice, assumes that authorities will not dispose of houses on such terms that the interest charged represents a loss to the authority.

I am told that the Ministry has now made it clear that if cases of this kind become common it would almost certainly be necessary for the Minister to take some action to check the abuse, although formal action to amend the circular would not be warranted on the strength of an isolated case here and there. The important thing, however, is that the local authority concerned is being told that charging interest rates which are a loss to the council is a practice which is unlikely to earn the approval of the Minister.

This development is likely to allay the fears which were experienced initially when the decision by the particular local authority I mentioned was first publicised. I think it will still be necessary for house-builders to exercise vigilance to ensure that local authorities do not overlook the Ministry's intentions in this matter.

WHILST on the subject of local authorities I feel I must make a few comments upon some recent observations made by Ald. Walter Allen, chairman of the Camberwell Borough Council's planning and development committee. He complains that the Minister of Housing and Local Government is forcing the borough's direct labour organisation to compete with private building contractors. Why, I am tempted to ask, in heaven's name should it *not* compete with private building contractors? Is it because Ald. Allen fears that private contractors will submit lower prices, get the work and put Camberwell's direct labour out of business? If this is so then Ald. Allen should welcome such competition on behalf of the ratepayers he represents. Why *should* they pay more for their building work than they need?

It is no answer, as Ald. Allen has suggested, to say that direct labour departments are not in such a favourable position as the private contractor because they cannot tender for outside work. His plea that to insist that direct labour departments must be successful in competition might mean they won't get a contract for three or four years merely underlines the confused thinking that goes on in the minds of some elected representatives on this issue. It also underlines the argument that has so often been advanced by building contractors that once a direct labour department has been set up a vested interest is created which must be preserved at all costs—and the ratepayer pays.

TWO well-known builders have recently had something to say regarding important aspects of the day-to-day building scene. Mr. W. Kirby Laing, addressing the eighth annual general meeting of John Laing and Son (Holdings), Ltd., referred to the fierce competition among contractors for road works. He mentioned that Laing tenders for major schemes have, except for the Maidenhead By-pass and the Barnet By-pass been unsuccessful, "despite our prices generally being below those current at the time of M.1." Mr. Laing suggested that far from economic prices are being submitted by firms for this type of work and expressed the hope that "soon prices will again reach a level at which there is at least some hope of covering the cost, which is not the case at the moment."

This state of affairs, if it is widespread, cannot do the industry any good. Firms putting in unrealistic prices may feel that they have achieved something, if only continuity of work, by getting the contracts, but buying work—and this is what it amounts to—is a thoroughly unsound principle, both for contracting firms and for the industry at large.

DEPRESSING as this part of Mr. Laing's statement may have been for shareholders they may have gathered some reassurance as a result of his reference to the increasing number of contracts which have been entrusted to the company at the design stage by clients who appreciate the advantages to be gained by this approach to the engagement of building services.

There was an oddly co-incidental and interesting parallel to these observations by Mr. Laing in the remarks made by Mr. Norman Wates when the London Architecture Bronze Medal for the L.C.C. Roehampton flats was recently received by Mr. Hubert Bennett on behalf of the Council's Housing Division. Wates, Ltd., were responsible for the £5m. scheme, and although Mr. Wates mentioned the excellent co-operation between the clients and his firm which had resulted in a change of system to bring in precast elements instead of in-situ design as originally proposed, he said that he still felt even more successful results could have been achieved had the firm been able from the outset to integrate their construction methods into the design. He made a telling point when he expressed the view that by the integration of the builder and his know-how into design, money could be saved in the bones of the structure which could be spent on finishing —which was currently mean in quality.

I WAS more than a little impressed by the discussion which followed Mr. Peter Trench's lively Paper on "The Federation and the Future" given on the second day of the N.F.B.T.E. half-yearly meeting. Unless I am much mistaken I sensed something of the atmosphere of a revivalist meeting, which may have been engendered by Mr. Trench's melodious tones, or by the frank admission by Mr. Idris Owen early on in the debate that he was no longer a militant rebel but "all for the Federation."

All this apart, however, there was still something about this London half-yearly meeting which left me with the impression that the prestige and standing of the N.F.B.T.E. has never been higher among the constituent regional federations and local associations. Mr. D. E. Woodbine Parish, the president, and Mr. E. J. Cook, the L.M.B.A. president, and indeed all those who took part in the two days' discussions, may congratulate themselves on a useful job well done.

COMPRESSED AIR FIRM'S TAKE-OVER BID

Atlas Copco AB, of Stockholm, have made an offer for the control of Svenska Diamantberg Borrnings AB, a Swedish company with overseas associates which specialises in drilling operations for testing soil, rock strata, mines and ore deposits.

Svenska Diamantberg Borrnings AB shareholders are offered five Atlas Copco shares for one S.D.B. share, plus Sw.Kr. 30 in cash. For the purpose of the offer, Atlas Copco AB share capital is being increased—subject to the shareholders' approval—by the issue of 562,500 shares at a par value of Sw.Kr. 25 per share.

The offer would come into effect on acceptance by holders of at least 60 per cent. of Svenska Diamantberg Borrnings AB shares. Subscription is scheduled to take place between July 29 and September 1, 1960.

Obituary

It is with regret that *The Contract Journal* records the death of the following:

Mr. Martin O'Brien, principal director of O'Brien and Richmond, Ltd., contractors, Otley, Yorks.

SLUSHING OPERATIONS AT STAUNTON HAROLD RESERVOIR

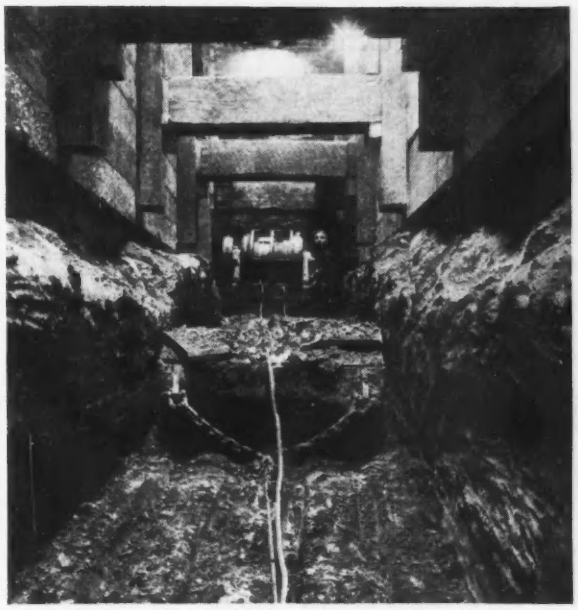
From a Correspondent

AN interesting development is currently being pioneered by Thyssen Shaft Sinking Co., Ltd., on the site of the Staunton Harold Reservoir, near Melbourne, Derbyshire, where they are sinking the cut-off trench. The completed excavation will be 6ft. wide, up to 90ft. deep, and approx. 2,500ft. long.

Work began in the orthodox manner by manual labour, but progress was too slow, resulting in an average of only one cu. yd. per man shift. The problem, therefore, was how to speed up operations.

Thyssen, who have considerable experience in the mining field, acted upon the suggestion from their contracts manager that a slusher might be found which would be operational in a trench. Their inquiries brought them into contact with Joy - Sullivan, Ltd., and a number of experiments were carried out which led to the evolution of a revolutionary design of slusher blade, operated by a Joy N.221 double drum trenching slusher haulage.

Before starting operations with the N.221, Thyssen sunk a shaft 15ft. long by 6ft. wide to a depth of 10ft. in excess of the final trench depth. The shaft was sited midway along the trench and timbered, using the same spacing for struts and soldiers as employed for the rest of the trench. When excavation is completed the shaft becomes an extension of, and is indistinguishable from, the remainder of the trench. The timbering throughout consists of 3in. sheeting, with soldiers, and 12in. by 12in. cross struts. The length of each bay is 15ft., which corresponds to the lateral width of the shaft. Cross-struts are placed horizontally at 7ft. 6in. centres and the vertical spacing is 4ft. 6in. between centres.



The Joy N.221 trenching slusher in operation at 80 + ft., showing the two independently geared haulage drums and the position of the controls

The slusher power haulage was lowered in the shaft to the existing level of the trench floor and anchored across two 12in. by 12in. struts. A ⅝in. diameter rope is led from one side of the haulage drum, passing through a return sheave, and back to the scraper bucket. The single-haulage wire is taken from the other side of the drum direct to the scraper.

The return sheave is shackled to one of the cross timbers which is braced horizontally by spacers set between the soldiers on each side of the trench. Length of scrape is 95ft. dependent upon the position of the sheave block.

Joy-Sullivan developed the scraper bucket for use in similar conditions, i.e., where the bucket must cut its own clearance in unbroken ground below surface level. Width of scrape is 4ft. 6in. and the bucket has replaceable cutting teeth on the base and sides. The side teeth are adjustable for height and width so that bucket clearance can be varied to suit existing conditions.

In plan view the slusher occupies only half the lateral width of the shaft, leaving a 6ft. 6in. by 4ft. 6in. space free of horizontal timbering to allow removal of material by skip, operated from a crane on the surface. It is worth noting that a quick acting, self-tipping skip is being used by Thyssens.

Sequence of Operations

Using this arrangement, the sequence of operations is as follows: the scraper is hauled back to the return sheave, the haulage drum is reversed, and the scraper drawn back to the shaft, cutting its own clearance. The drums are powered through epicyclic gearing by a turbine air motor giving 23-h.p. at 70 p.s.i. Each drum is

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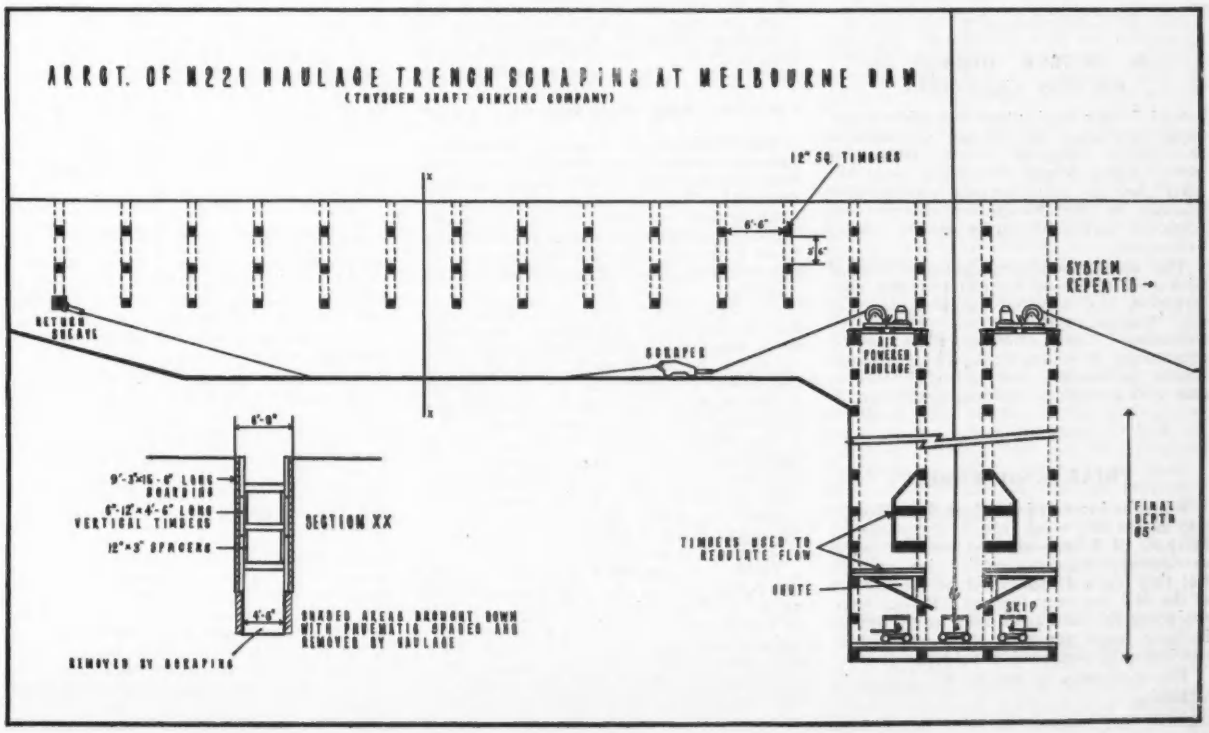


PLANS FOR £2M. BUILDING AT SOUTHEND

PERMISSION was given last week by Southend Borough Council for the construction in the centre of the town of a £2m. block, comprising a department store, garage and office building. G. J. Keddie and Sons, Ltd., are the developers, and the building will be erected on a site between their existing department store and the new Southend High Street.

The development is a long-term proposal, to be carried out in three stages and completed within 15 years. Stage I will cost £750,000, and will provide about 150,000 sq. ft. of floor space. The building will have 14 floors, the first three for sellings, the next two for car parking, and the rest as offices. The eventual size of each sales floor will be about one acre.

There will be parking for 150 cars in the first stage, and for 400 in the ultimate scheme.

Stage II will include development of the adjacent Essoldo Cinema site, acquired by Keddies in May, and Stage III will take in the site occupied by their existing store. The final area of the building will be about 350,000 sq. ft.

Yorke, Rosenberg and Mardall, London, are the architects for the project, which is still in the planning stage, and for which contractors have yet to be appointed.

MANCHESTER BUILDING CENTRE OPENED

The Manchester Building Centre, which is affiliated to the London Building Centre, was opened to the public last week.

The Centre occupies two former cotton warehouses in Portland Street. The refacing of the front of the building and the replanning of the interiors have been designed by the Centre in order to obtain the maximum visibility from the street into the building, to form a large reception and information area and to form inter-communicating galleries suitable for the display, product by product, of the great variety of materials and equipment on show in the Centre.

The director is John P. Griffiths, Dip.Arch., A.R.I.B.A.

U.K. TIMBER MISSION TO BRITISH COLUMBIA

Back from a week's tour of lumber operations on Vancouver Island, members of the United Kingdom Timber Delegation now visiting British Columbia spent the early part of July viewing western-style housing in the Vancouver district and studying new developments in timber utilisation.

The second week's programme opened with a brief course on timber-frame construction and kindred subjects, held at the Architectural Institute of British Columbia. Later, the delegates visited community buildings exemplifying modern timber techniques and toured homes in one of Vancouver's residential districts.

TRIAL AND ERROR

When he inspected the Ross Spur Motorway earlier this week, Mr. Ernest Marples, Minister of Transport, said the 24ft. wide carriageways were not really wide enough, but they were designed before the lessons of the M.1 had been learned. If they were designing the road again they would design it on a more generous scale with wider carriageways and hard shoulders.

The motorway is due to be opened in October.

GLASGOW FIRM'S BIG N.A.T.O. CONTRACT

THE Glasgow firm, Melville Dundas and Whitson, Ltd., have been awarded the main contract for the construction of the £2m. N.A.T.O. oil fuel depot at Loch Strivenhead, Argyllshire. Work is expected to take two years to complete.

Announcing this in the Commons last week, the Civil Lord of the Admiralty, Mr. C. I. Orr-Ewing, said that it would be additional to the £3¾m. Glen Douglas, £1m. Macrihanish and £300,000 Rosneath schemes, and to the £3m. boom defences at Fairlie.

WELDING DELEGATION RETURN FROM U.S.S.R.

A delegation from the British welding industry returned to this country last week after visiting Russia at the invitation of the State Scientific and Technical Committee of the U.S.S.R. Council of Ministers.

On their arrival members of the delegation said they were impressed with the scientific and technical development which is taking place in Russia and reported that the facilities in this direction are such as will enable many improvements to be made in production in the near future. The Russians appear to be particularly interested in the production of arc welding electrodes.

The delegation, led by Mr. D. J. W. Boag, managing director of Rockweld, Ltd., will be followed by a reciprocal visit to the U.K. by Russian technical experts. The exchange of visits has been arranged by the British Electrical and Allied Manufacturers' Association.

BIRMINGHAM CORPORATION'S LABOUR DIFFICULTIES

Birmingham City Council are experiencing great difficulty in recruiting sufficient labour to maintain their public services.

Manual staff are in such short supply in the Public Works Department that many schemes are delayed, even though work is being placed with outside contractors which would normally be done by the Department.

Road and sewer construction and maintenance are particularly hard hit, there is an acute shortage of skilled paviors and there are many vacancies for engineering craftsmen, vehicle fitters and street sweepers.

"WHERE ARE THE MOTORWAYS?"

The Ministry of Transport envisages a network of several hundred miles of motorway. What stage of development has been reached? What is built, what is under construction, what is still only a dream? These are some of the questions the British Road Federation sets out to answer in its newest publication "Where are the motorways?"

The first of these charts shows the position in respect of 870 miles of motorway as at the end of April, 1960, based on a statement by the Minister of Transport in the House of Commons. Each motorway in the network is shown on the chart as a bar scaled to the mileage planned.

The overall position today is slightly better than it was 2½ months ago when the chart was drawn up. The Maidstone By-pass (shown as being under construction) is open to traffic, for instance, and the Stevenage By-pass (shown as being placed to contract) is now under construction.

These and any other advances towards the completion of the national motorway network will be plotted on chart No. 2 to be issued later in the year. It is the Federation's intention to produce the charts so as to show the position at the end of April and October, every year—the traditional start and close of the road-building season.

Late Construction News

PORTSMOUTH TECHNICAL COLLEGE.—Portsmouth City Council have been recommended to accept the tender of Portsmouth, Gosport and District Builders Guild, Ltd., at £440,900, for the erection of the Highbury Technical College. Eight tenders were received ranging up to £475,880.

MELBOURNE OFFICES.—Costain, Hansen and Yuncken Pty., Ltd., part of the Richard Costain Group, have been awarded a £1m. contract for building a 10-storey block in Melbourne to house 200 barristers. The project is expected to be completed by September next year.

ACTON COLLEGE EXTENSION.—Middlesex C.C. are inviting tenders from selected contractors for the erection of a new engineering block at Brunel College of Technology, Acton. Plans are by the county architect and the quantity surveyors are Harry Trinick and Partners, 11 Old Queen Street, London, S.W.1.

HOUSING TENDERS.—Bids from selected contractors are due in next week to Weston-super-Mare B.C., for the erection of 96 houses, 12 maisonnettes, a clinic and 54 garages at the council's Bourneville estate. The architects are Reginald H. Gallanaugh and Partners, 54 Queen Anne Street, London, W.1, and the quantity surveyors, Banks, Wood and Partners, 5 Cromer Street, London, W.C.1.

FINCHLEY OFFICE BLOCK.—A £200,000 contract has been awarded to Higgs and Hills, Ltd., by the Central Electricity Generating Board, for the erection of an office block and canteen building at Squires Lane, Finchley, London, N.3. The building has been designed by Farmer and Dark, Romney House, Tufton Street, London, S.W.1. E. C. Harris and Partners, Lynton House, Tavistock Square, London, W.C.1, are the quantity surveyors.

OFFICES AND FLATS SCHEME.—Stoke Newington B.C., are inviting tenders—due in next week—for the erection of a block of offices and 29 flats on the site of the former Alexandra Theatre, Stoke Newington High Street, London, N.16. The consultants for the scheme are: Howes and Jackman, architects, 1 Verulam Buildings, London, W.C.1; Hurst, Peirce and Malcolm, consulting engineers, Artillery House, Artillery Row, London, S.W.1; and E. C. Harris and Partners, quantity surveyors, Lynton House, Tavistock Square, London, W.C.1.

LEEDS OFFICE BLOCK.—The contract is expected to be placed shortly for the erection of a multi-storey office block at Eastgate, Leeds, for the National Deposit Friendly Society. Estimated cost of the building is £200,000. Ansell and Bailey, 12 Gray's Inn Square, London, W.C.1, are the architects.

BRISTOL COLLEGE CONTRACT.—Griggs and Son, Ltd., 56 Victoria Street, London, S.W.1, have been awarded a contract, subject to Ministry approval, for the erection of the first instalment of new accommodation for Redland College, Bristol. The City Council have been recommended to accept their tender, amounting to £230,620.

CYPRUS BARRACKS CONTRACT.—Among the first contracts to be let by the War Department in connection with new bases in Cyprus is that placed with Medcon Construction, Cyprus, for erection of barrack buildings at Nikolaos. Further contracts will be placed in the near future for the erection of a church at Dhekelia and the construction of water supply at Episcopi.

KENSINGTON FLATS.—In last week's issue it was reported that Kensington B.C. had accepted the tender of Unit Construction Co., Ltd., for building 20 flats and 20 maisonnettes as stage 1 of the Kensal New Town scheme. The council have in fact rescinded their resolution to accept this tender and new tenders are now being invited.

BUILDERS OF THE FUTURE

Yorkshire Conference on Education and Training

THE building industry needed to draw its recruits from all spheres of education up to the university level, Mr. L. J. Holloway, vice-president of the N.F.B.T.E. and chairman of the L.M.B.A. Training Committee told a recent Leeds conference on "Builders of the Future," organised by the Yorkshire and North Western Educational Associations for the Building Industry. He said that one of the main problems confronting the industry today, was how to ensure an adequate supply of competent supervisors and managerial staff.

"It is surprising how often those who ought to know better persist in thinking that the industry is still essentially a craft industry and that the only method of entry is through craft apprenticeship," he said. He regretted that some people advising young men on their future careers never see beyond apprenticeship when thinking of the industry.

"It would seem fairly obvious," he declared, "that the industry has much to offer young men of good general education with the ability to obtain the technical and other qualifications required of those who are to fill positions of responsibility in the industry in the future."

With over 1,000,000 people engaged in building work, with the industry accounting for over 10 per cent. of total national expenditure and over half of the country's fixed investment, the efficiency of the industry was of vital importance. The requirements of construction could only be done efficiently if the industry had supervisors and managers capable of applying new techniques and practices. The numbers required would be forthcoming only if the industry recruited at more levels of entry than formerly and offered these entrants training suited to their capacity.

"It was to encourage members to think about their recruitment and training policies that the N.F.B.T.E. drew up some years ago certain schemes of training for building trainees," continued Mr. Holloway. "The Federation has not attempted to draw up a national scheme in the sense of suggesting that there is only one method for training these new entrants. It recognises that the type of education and training offered must be suited both to the trainee's general education and to the firm's organisation, but one thing all the recommended methods have in common is a definite period of training, preferably under articles, requiring attendance at a course leading to a recognised qualification and giving varied practical experience on the site and in the offices."

Methods Recommended

Mr. Holloway went on to outline some of the methods recommended by the Federation. "Under all the methods referred to," he said, "the trainee and his employer know exactly what subjects he has to study in order to obtain the technical qualifications aimed at and the trainee's progress can be measured by the reports from the college which he is attending. Equally important is the practical training given during the period under articles.

"The Federation had not drawn up a national scheme for practical training because it recognises that the practical training provided for any particular trainee must be influenced by the size of the firm to which he is articled. The Federation does recommend that individuals should have a programme of their own, sufficient to check that each trainee is, in fact, getting the variety of experience that the firm can provide," he said. "Obviously the practical training should, as far as possible, be complementary to the education provided at the college.

"The Federation recommends that there should be one person in the firm responsible for supervising the trainee throughout his articled training and for ensuring that the trainee is moved from job to job and department to department to get the desired variety of experience. This supervisor and the trainee's college tutor should between them be able to ensure that the trainee's education and training is as closely co-ordinated as possible."

Employers' Responsibility

Mr. Holloway went on to describe some of the efforts that are being made to encourage employers to give suitable employees the opportunity to have different kinds of additional training.

"The Board of Building Education established jointly by the Institute and the Federation," he said, "is reviewing the whole field of education and training in the industry.

"It is quite obvious that the aim of education and training is to raise to the highest possible standards the ability of people within the industry. The responsibility for this, of course, falls fairly and squarely on the shoulders of employers. The technical colleges exist to carry out the wishes of industry in this matter and unless industry is fully represented on Advisory Committees and Boards of Governors of Technical Colleges throughout the country, it is quite obvious that any policy laid down by the National Federation cannot succeed.

"I cannot emphasise too strongly that it is the responsibility of employers to see that their staffs and their students take the fullest possible advantage of what is at present on offer and to see that they have a hand in shaping the future."

Technological Education Impeded

Mr. D. A. G. Reid, B.Sc.(Eng.), M.I.C.E., A.M.I.Struct.E., principal of the Brixton School of Building and a member of the examinations committee of the Institute of Builders, speaking on the theme of "The Technical Colleges" said that the builders of the future would have a more scientific outlook than builders of today and it was the universities and technical colleges which would have to give them that outlook.

"The advance of technological education was doubly impeded," he said. "The industrialists, in so far as they are inclined at all to encourage technical studies, are satisfied with descriptive teaching of current techniques. Teachers interested in breaking the barriers of current practice are hard to come by. It would be wrong to ignore the progress made in building education during the last 30 years, but it would be equally wrong to believe that our present teaching is satisfactory for the builders of the future."

Mr. Reid recommended that the trends in engineering education should be carefully studied by those concerned with education and training for the building industry. The engineering industry appreciated the valuable qualities of the university graduate as a trainee for the most responsible positions in management and technical development. Also the immense number obtaining professional status through Higher National Certificate Courses had been an outstanding feature for over 40 years. It was evident that engineers were inclined to favour full-time or sandwich courses for their most promising trainees and to use the Higher National Certificate Courses to produce higher technicians—a very valuable and numerous class but not the growing points of the Industry.

"It will be several years before this separation is generally accepted in engineering; in building it has hardly begun but it is a trend to be recognised and studied," said Mr. Reid.

Commenting on current developments in Building Education, Mr. Reid said "The last year has seen the publication of two reports intended to exert great influence on building education—the Board of Building Education report on Management Studies and the Institute of Builders Revised Scheme of Examinations. The immediate task of the technical colleges is to digest the recommendations of these reports and to implement them by suitable courses of study."

Outstanding Problem

Mr. Reid recommended changes which would make it possible to use the subject "Building Science" to provide an opportunity to engender a deeper understanding of scientific principles particularly in respect of their building applications. "This is the understanding which builders generally lack," he said. "This scientific approach is the outstanding problem in building education today and the main responsibility for solving the problem must be accepted by the colleges offering degree course, technical diploma courses and Higher National Diploma Courses in building. It is equally important, however, that all teachers concerned with the teaching of construction should consider very carefully whether their teaching is of tomorrow's building or of yesterday's."

Mr. Reid went on to survey management studies, the development of courses and the educational needs of modern training.

He concluded with the view that "There are very few people in the industry capable either of understanding a research paper or of assembling the available information relating to a building problem. The builders of the future must have a more scientific outlook than the builders of today and it is the universities and the technical colleges which must give them that outlook."

Mr. S. J. Cartledge of Grimsby, president of the Yorkshire Federation of Building Trades, who welcomed the 80 delegates representing builders in Yorkshire and Lancashire, said that the industry's increasing use of mechanisation, prefabrication and precasting, had altered techniques and these would demand better educated technicians and apprentices.

DUMBARTON ARCHITECTURAL COMPETITION WINNERS

A joint entry by John Rae, Dip.Arch., Dip.T.P., A.R.I.B.A., Dereck Preston, A.N.Z.I.A., Stephen Garner, M.C.D., B.Arch., A.R.I.B.A., and Walter Strubel, architect (Switzerland), has been placed first in the architectural competition for redevelopment of the town of Dumbarton.

Second was a joint entry by Graham Law, M.A., A.R.I.B.A., A.R.I.A.S., and James Dunbar-Nasmith, B. A., A. R. I. B. A., A.R.I.A.S.; and third an entry by Robert W. K. C. Rogerson, A.R.I.B.A., A.R.I.A.S., D.A.(Glas.), F.S.A.(Scot.).

The Borough Council's town redevelopment proposal is a long-term one, partly by private and partly by public development. Competitors had to provide within fixed limits housing, shopping, office accommodation, car parking, etc.

The total estimated cost of the whole of the works contained in the winning design is about £4m. It envisages a new main road through the town, raised on pillars to provide free use of the whole site at ground level. North of this road is placed the office accommodation, and south of it the housing and main shopping unit, which is conceived as a two-storey street, the lower storey being partly a covered arcade. A new hotel and open space is sited on the river bank.

At Banbury Town Hall, on November 8, the Ministry of Housing and Local Government is to hold an inquiry into a proposal to open up 5,000 acres of farmland near Banbury for ironstone mining.

Men and Movements

WITH the completion of the major part of the B.B.C.'s new Television Centre, **Mr. M. T. Tudsbery,** C.B.E., F.C.G.I., M.I.C.E., the corporation's first civil engineer, will finally retire at the end of August. He retired under the age limit in 1952, but stayed on as consulting civil engineer so that he could carry through the work on the White City site. After retirement he is to go on a world tour and will spend a month in Australia and New Zealand. Mr. Tudsbery joined the B.B.C. in 1926, following work at the War Office.

M. T. TUDSBERY

Mr. H. Walkden has been appointed manager of the Cementation group of companies for the Far East and Australasia. He will be responsible for the general control of contract work carried out by the group in India, Ceylon, Australasia and Far Eastern centres but excluding New Zealand. Mr. Walkden will relinquish his appointment as general manager, India, Pakistan and Ceylon, and **Mr. W. J. Greig** will become manager of the Indian branch of the parent company. The Pakistan branch will be controlled by the Middle East general manager, **Mr. P. Massarik.**

Among passengers returning to this country from New York on the "Queen Mary" last week was **Mr. G. A. Hannah,** managing director, Pegson, Ltd.

The new engineer, manager and secretary to Grantham Waterworks Company, succeeding the late **Mr. F. H. Gibson,** is **Mr. I. G. Smith,** previously assistant secretary to the company.

G. Percy Trentham, Ltd., have appointed **Mr. P. J. Trentham** and **Mr. A. H. C. Gregory** to the board. Mr. Gregory will be the controlling director on the contract for the new Ford Motor Company plant at Halewood, Liverpool.

Scott and Wilson, Kirkpatrick and Partners, the London firm of consulting engineers, have announced that they are taking into partnership their associate, **Mr. C. G. Sang,** B.Sc., A.M.I.C.E. At the same time **Mr. J. K. M. Henry,** B.A., B.A.I., M.I.C.E., and **Mr. G. M. J. Williams,** M.A., M.I.C.E., F.ASCE., will become associates of the firm.

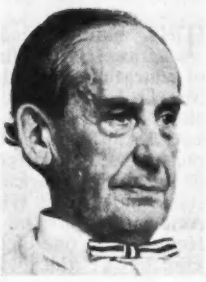
Mr. J. E. Roach has retired from the managing directorship and from the board of Daniel Adamson and Co., Ltd. **Mr. Otto F. Reichwald** has been elected a director in his place and will take up the full-time appointment as managing director later in the year.

Cummins Engine Co., Ltd., Shotts, Lanarkshire, have announced the promotion of **Mr. John C. Skarratt** to London office manager. He was previously a Cummins sales engineer and has experience of selling equipment to the United Kingdom and overseas markets.

J. C. SKARRATT

London Transport have announced that **Mr. W. A. Worth** has been appointed an officer of the Executive, with the title of purchasing officer. He will be responsible to **Mr. A. E. Shave,** supplies officer, for the control of the work of the purchasing office.

Dr. Walter Gropius, Professor Emeritus of Harvard University, has been invited by **Mr. Jack Cotton,** chairman of City Centre Properties, Ltd., to consult with him on proposed redevelopment schemes in the centre of Birmingham and in London. After arriving in this country at the beginning of the week, Dr. Gropius spent two days inspecting office properties under construction at Kensington, Park Lane and Piccadilly, and yesterday left for a similar tour in Birmingham.



DR. W. GROPIUS

MUNICIPAL

Sheffield City Council have appointed **Mr. C. R. Warman,** their deputy city engineer, as city engineer and surveyor and town planning officer in succession to **Mr. Henry Foster.** He will take up his post in January, when Mr. Foster retires.

Mr. Arthur H. Price, at present chief assistant engineer at Worcester, has been appointed deputy borough engineer at Gosport in succession to **Mr. Clifford Thomas,** who becomes borough engineer.

The city surveyor and town planning officer at Manchester, **Mr. Rowland Nicholas,** has been elected president of the Town Planning Institute for 1960-61. He succeeds **Professor J. S. Allen.**

Mr. W. Burns, deputy county planning officer to Surrey C.C., will take up an appointment in September, as city planning officer at Newcastle upon Tyne.

The deputy borough surveyor at Andover, **Mr. J. C. Middleton-Taylor,** will become borough surveyor next September in succession to **Mr. R. S. Offord.**

Mr. W. E. C. Bird, deputy surveyor at Cheltenham has been appointed to succeed the borough surveyor, **Mr. G. G. Marsland** whose pending retirement was announced recently.

(Concluded from page 195)

fitted with a manually operated heavy duty clutch of the band type. On reaching the slusher, material removed by the scraper falls into the shaft immediately below the slusher where a chute directs the material into the waiting skip.

As slushing continues, the sides of the trench are brought down by pneumatic spades to the maximum width of 6ft. and then timbered. This operation is repeated for every 6ft. excavated. Little time is lost by this procedure, as the slusher must be stopped in any case for lowering in the shaft to follow the level of the trench floor. The slusher base has two hinged mounting frames, which, in the horizontal position, project beyond the base and are quickly and easily anchored to the cross struts. These frames can be hinged down to clear the struts so that the slusher may be freely raised or lowered between them.

When the trench has been excavated to the required depth the slusher is brought to the surface and moved to the next 95ft. section.

There is no need to sink more than one shaft. The slusher is mounted across the uppermost timbers at the end of each completed section and is lowered in the trench as slushing continues.

The process can be repeated indefinitely, though, if rock strata is encountered, it would be necessary to drill and blast with light charges after which the spoil would be removed by slusher.

Though the figures obtained by Thyssen may vary according to the type of ground to be worked—in this case the going consists of clay and soft sandstone—it is understood that for every cubic yard excavated manually per man shift, the N.221 slusher can remove 20 plus cu. yd. per man shift.

The labour force consists of a team of four who operate the slusher and surface crane engaged in removing material from the trench. Another four-man team is employed in side trimming and timbering operations.

A second slusher, which will operate on the other side of the shaft, has been ordered and will be in operation shortly. In this case the labour force would be increased only by the second slusher crew

The output of the slushers is at present restricted by the speed of removal and disposal of the spoil, though a new system of spoil removal is being designed which will dispense with the cranes and result in vastly increased output from the slushers.

The site is now working two 12-hour shifts. A complete cycle of operations, consisting of preparations, slushing, trimming and timbering for the excavation of a 95ft. by 6ft. section to a depth of 6ft. occupies one 12-hour shift.

Staunton Harold Reservoir is being constructed for the River Dove Water Board, Leicester, by Tarmac Civil Engineering, Ltd.

Production of sand and gravel in Britain during the first three months of 1960, amounted to 16,747,500 tons.

(Concluded from page 192)

space for movement and placing of scenery and props. Four dressing rooms, each fitted with mirrors, make-up shelf, wash basin with hot and cold water, are fitted with collapsible partitions enabling them to be used separately or combined. Lavatory accommodation and a store for chairs is arranged for under the back stage.

Provision has been made for hanging conventional stage drapes and curtains, if required, but readily interchangeable hinged hardboard covered screens have been provided as side legs and ceiling borders for general stage dressing and to act as sound reflectors.

On the advice of the Timber Development Association, Afrormosia has been selected as the most suitable timber for outdoor use as a stage floor. A waterproofed drugget is provided for protection of the forestage when not in use during the winter and a stage trap is incorporated in the floor.

Electrically operated collapsible doors act as proscenium curtains and serve also to secure the building when it is not in use. Stage lighting, sound amplification and provision for film performances are incorporated.

Construction Team

The theatre was designed by Mr. E. A. H. MacDonald, the borough architect and director of housing, with Mr. J. H. Coombs, of J. H. Coombs and Partners, Sunbury-on-Thames, acting as structural engineer.

W. J. Marston and Son, Ltd., Stephendale Road, London, S.W.6, were the general contractors.

£695,337 DEE BRIDGE CONTRACT AWARDED JOHN HOWARD

Work to Start Next Month

THE Minister of Transport has authorised Flintshire County Council to accept the £695,337 tender of John Howard and Co., Ltd., London, S.W.1, for the construction of a new bridge over the River Dee and a 1¾-mile road to by-pass the village of Queensferry. Work will start in August and is expected to be completed in 12 months.

The new Queensferry Bridge has been designed by Mott, Hay and Anderson, consulting engineers, and approved by the Royal Fine Art Commission. It will cross the River Dee at a point approximately 200yd. upstream of the existing narrow bascule bridge. The River Dee at this point is about 400ft. wide and the new bridge will cross it in three spans. Dual 24ft. carriageways will be provided together with 6ft. footways. The bridge will be founded on large diameter bored piles carrying steel plate girders which will act compositely with the reinforced concrete deck.

The scheme will form part of the by-pass road which will leave A.550 at Drome Corner and run south-east of the existing trunk road, passing under the Chester-Holyhead railway line, to a large roundabout near Queensferry Crossroads. This roundabout will provide connections to the main North Wales routes. The by-pass road will be 80ft. wide with twin 24ft. carriageways.

Much of the surrounding country is low lying and, in collaboration with the Dee and Clwyd River Board, a pumping station will be built near the river to ensure that the road drainage system continues to function at times of high water in the River Dee.

The road scheme has been prepared for the Minister by the county surveyor of Flintshire, Mr. E. W. W. Richards, M.I.C.E. The railway bridge which will carry the Chester-Holyhead line over the new by-pass will be built by the British Transport Commission.

The scheme for a by-pass and new bridge at Queensferry is the first stage of the improvement of road communications between North Wales and North West England. It will be followed by a scheme for widening and realigning the trunk road between the Queensferry end of the by-pass and the crossroads at Ewloe where there is a juction with the Chester-Bangor Trunk Road (A.55). On the western side into North Wales the A.55 will eventually be provided with dual carriageways as far as Conway. On the eastern side into England the new Queensferry By-pass will be linked with new trunk roads planned in Cheshire and when the later stages of the road programme are completed it will be possible for traffic from North Wales to go straight to Manchester and on to the Birmingham-Preston Motorway on first-class modern roads.

Swansea Approach Road

It has also been announced that the Minister of Transport has made a grant of £400,000 to Swansea Corporation towards the £618,000 cost of the final section of the town's East Side Approach road. About one-third of a mile in length, it will link the new road system which forms part of the reconstructed central area of the town with the new dual-carriageway road from Swansea Docks, via Jersey Marine, to the Neath By-pass at Earlswood roundabout.

The road will be carried over the River Tawe by a reinforced concrete bridge, 208ft. long and 75ft. wide, with a 100ft. centre span and two outer spans of 54ft. each. Its piers will be built in the river on piled foundations, and the abutment foundations will also be piled. The project also involved the reconstruction and diversion of railway tracks and the construction of a new bridge to carry the railway over the road.

The scheme has been designed by Swansea borough engineer and surveyor, Mr. R. D. Moody, A.M.I.C.E., M.I.Mun.E., who informs *The Contract Journal* that the roadworks will be carried out by direct labour. It will be some three to four months before a contract is let for the Tawe Bridge.

TAY ROAD BRIDGE TO COST £3.9M.

The Tay Road Bridge Joint Committee have agreed to a proposal to site the bridge on a line from Dundee Tidal Harbour to high ground beyond the Newport-Tayport Road. The bridge would cost about £3,900,000, and would be 7,300ft. long.

The committee are to ask for a meeting with the Secretary of State for Scotland to resolve the financial considerations and allow for the Provisional Order to be submitted. Mr. W. A. Fairhurst, of F. A. Fairhurst and Partners, Glasgow, is the consulting engineer for the scheme.

£250,000 CITY UNDERGROUND GARAGE

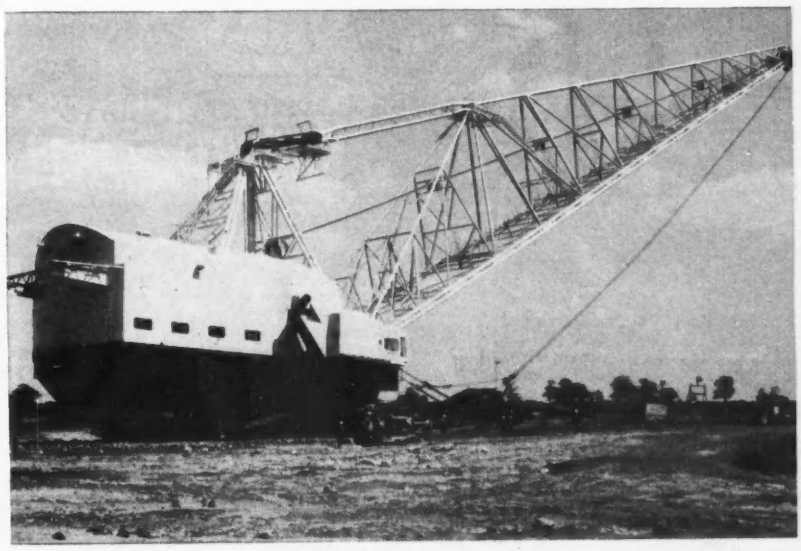
Lex Garages, Ltd., have placed a contract with John Laing and Son, Ltd., London, N.W.7, for the construction of an underground parking garage beneath Finsbury Square. The cost is estimated at £250,000, and work is expected to commence next month.

Shingler and Risdon, 47 Bedford Row, London, W.C.1, are the architects, and the quantity surveyor is H. G. S. Groves, of the same address. The consultants are T. C. Jones and Co., Ltd., 95 Wood Lane, W.12.

1,750-TON DRAGLINE INSTALLED IN IRONSTONE QUARRY

A 1,750-ton dragline, "walking" over two yards a minute on its two 57-ton feet, which are 48ft. long and 9ft. broad, has just been installed by Stewarts and Lloyds Minerals, Ltd., at their Cowthick ironstone quarry near Corby, Northamptonshire. Its purpose is to remove the overburden and expose the ironstone.

The 303ft. long jib, designed and built by Tubewrights, Ltd., in co-operation with Ransomes and Rapier, Ltd., is constructed of tubular steel and welded throughout for lightness and strength, and in its working position the jib head is 185ft. above the ground. It has a dumping radius of 280ft., the 22 cu. yd. bucket digging approximately 33 tons a fill.



General view of the new dragline

The Cowthick W1400 dragline's feet move 6ft. 6in. every fifty seconds, while the cycle of filling the bucket, swinging to the discharging point and returning to the digging position is 56 seconds.

Manufacture of the £750,000 machine began at Ransomes and Rapier, Ltd., early in 1957. The new dragline has a slightly larger boom than the company's other walking dragline in the Corby area; this was brought into operation in 1951, and was then the largest in the world.

SOIL STABILISATION OF MOTORWAY SUB-BASE

Two stabilising machines will play a vital part in the construction of the new 27½-mile Bristol-Birmingham motorway. Belonging to the soil stabilisation department of The Cementation Co., Ltd., they are the only two of their kind owned by specialist contractors in Great Britain today.

The machines, known as the "P and H" and the "Vögele," are valued at approximately £40,000, and by the end of the contract they will have stabilised nearly one-and-a-half million square yards of the motorway's sub-base.

A £500,000 sub-contract connected with this project has been awarded to Cementation. The main contractors are A. Monk and Co., Ltd.

Talking of Safety

by

"DRAGEE"

NEARLY every safety officer finds that working attire is one of his most persistent problems, and if he happens to be connected with the constructional industry — so much the worse.

A few weeks ago I investigated the case of a man who had fractured two toes and severely sprained an ankle when his foot slipped between the bars of a grille platform which he had been helping to fix. The site engineer, McTavish, stared at the platform thoughtfully, then shook his head.

"I just canna make it out," he said. "I've never seen that happen before."

"What size is Harris?" I asked.

"Och, he's just a wee chap." He darted a glance at me. "But if you're thinking that's the reason he got his foot caught, you're mistaken. He takes size seven shoes and that's quite large enough for walking safely on a grille floor."

"Mac—did you actually see the shoes he was wearing at the time of the accident?"

"No—but I believe he left one of them in the first-aid room when he was taken to the hospital. Anyway, I don't see . . ."

"Well at least let's go and inspect it," I suggested.

As we walked over to the first-aid station, McTavish gave me some background information about the injured man. He was an experienced erector and a careful, steady worker. His dependability was such that on several occasions he had taken novices under his wing—and had usually managed to get them working as conscientiously as himself.

The attendant quickly produced the shoe—looking rather sad and forsaken, as unmated pieces of footwear do—and I gave it a brief examination. No more was needed.

"Just look at that!" I said.

It was not even a shoe. It was an old worn-out plimsoll with several jagged tears in the upper, a gaping void in the sole, and a piece of knotted string doing an apologetic sort of duty for a lace.

"I imagine that was ready for the scrap heap when it was brought here," I said. "This is just another example of false economy. Too many men make a practice of using up their old cast-offs at work—and where does it get them?"

"Into Sunnyside Cottage Hospital, in this case," said McTavish. "Have you seen the nurses they have there? My, but they're just bonny! Yon wee man will have forgotten all his worries by now."

"Well perhaps that's something to be thankful for," I said. "But seriously, Mac, we shouldn't allow people to come on to the job dressed like that. I'm not suggesting we should exactly coddle the men, but you might get your foremen to make it a rule for their gangs to be properly dressed for work. I know it's a difficult question, but what we have to aim at are overalls, or boiler suits; industrial shoes or boots, and no loose ends flapping about."

"You'll have to start with some of the foremen themselves," said McTavish dourly. "They're as bad as the rest of them."

"Right—give me half-an-hour with them after they've had their dinner, and we'll see what happens."

"I'll wait outside and catch you," said McTavish.

My wife often complains that the back of my car resembles a travelling showroom. Certainly I carry about with me an interesting collection of demonstration equipment, and I am never reluctant to give a display whenever the opportunity arises. On this occasion the lecture was brief, urgent and amply illustrated with actual specimens of safety clothing, as well as posters and leaflets. I explained how every worker should regard his attire as an important part of his stock-in-trade, as it were. In future, every foreman on that site would be expected to set an example. Untidy and unsuitable dress in industry is not only dangerous to the wearer: it is a possible hindrance to production. . . .

I am pleased to say that this little homily—given with Hector McTavish's full support—produced some effect. When I returned to the site several days afterwards there were distinct signs of improvement amongst the foremen, and a slight but discernable change in the appearance of the men. Fred, the staff storekeeper, was highly amused at the entire business.

"They didn't like it at first," he chuckeld, "but the idea got through all right. I was interested in the bit about the chap who lost a finger when his signet ring was caught in a mixer. I had a mate on one job who was a plumber and he was very proud of a big ring he wore on his middle finger. It looked like a piece of copper but he said it was pure Welsh gold. One morning he got splashed with solder and some of it stuck to the ring, and nearly burnt his finger to the bone. Just to make him laugh a bit I said: 'That settles it—I always knew it was a ruddy big lump of copper.' But he just gave me a nasty look and went off to the first-aid."

"It was lucky for you he didn't give you something even nastier," I said.

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

£6M. L.C.C. EDUCATION ESTIMATE

The L.C.C., at its recent meeting, were asked to approve a capital estimate on education of £6m., for 1960-61, the same as for the current year.

The estimate includes £2,850,000 for building work on schools, etc., in the 1960-61 and earlier building programmes, for minor building works costing over £5,000 each, for laying out and the erection of changing accommodation at eight playing fields, and for the provision of new premises for the nature-study scheme on a site adjoining Crown Woods School, Woolwich. £370,000 is provided for furniture and equipment and £275,000 for grants-in-aid towards the cost of 11 new special-agreement secondary schools and for work at three aided establishments for further education.

LONDON MOTORWAYS NEED ADVANCE PLANNING

MR. ERNEST MARPLES, Minister of Transport, must show real statesmanlike initiative now to plan ahead for urban motorways in London. This is urged by the British Road Federation in the July issue of its "Bulletin."

The results of the origin and destination study to be undertaken are bound to confirm that these new roads should be built as urban motorways. Mr. Marples hopes to decide through that study what roads to build where.

While establishing the "what" and the "where" he must also make sure of the "how," says the Federation. The results of the Ministry's work must be translated as quickly as possible and without controversy into fact with harmony among all the interests involved. Mr. Marples must ensure that the building in all its phases can follow the planning in a smooth and uninterrupted transition.

HARLOW HOUSING COMPETITION

For the first time, Harlow Development Corporation are to hold an architectural competition for the design of one of the new housing areas. The first prize is £1,000 and designs have to be submitted by March 6, 1961.

The competition judges are Mr. H. T. Cadbury Brown and Mr. Victor Hamnett, corporation executive architect. The site is part of the Great Parndon Neighbourhood and is to accommodate a minimum of 270 dwellings of which not more than 40 per cent. may be flats.

DESIGN FOR DURABILITY

In his chairman's address to the North Western Association of the Institution of Civil Engineers, Mr. T. Whitley Moran said that the magnitude of the national maintenance bill demanded more attention to the need to design structures that would endure with minimum maintenance for many years.

Equally, maintenance should not be regarded as a matter of making good a particular defect, he said, but rather a once-and-for-all cure that would prevent the recurrence of the deterioration that had occurred.

MERSEYSIDE SAFETY TRAINING COURSES

BUILDING and civil engineering safety training courses will be held at the Merseyside and North-West Safety Centre, Stopgate Lane, Liverpool, 9, on the following dates:

Building—(1960) September 28-29; October 26-27; November 16-17; December 7-8; (1961) January 18-19; February 15-16; March 15-16; April 26-27; May 17-18; June 14-15. Civil engineering—October 19-20, 1960; and April 19-20, 1961.

Details of building courses are available from A. H. Johnson, 30 Foxcovers Road, Bebington, Ches., and of civil engineering courses from C. E. Rigby, secretary, Federation of Civil Engineering Contractors, North Western Section, Princess Street, Manchester, 2.

VAST ROOFING PROJECT

One of the largest single roofing operations ever to be carried out in Britain is to begin shortly at Swindon. The project, which calls for the erection of more than 750,000 sq. ft. of aluminium sheeting is part of a further major extension to the Pressed Steel Company's works at Stratton St. Margaret.

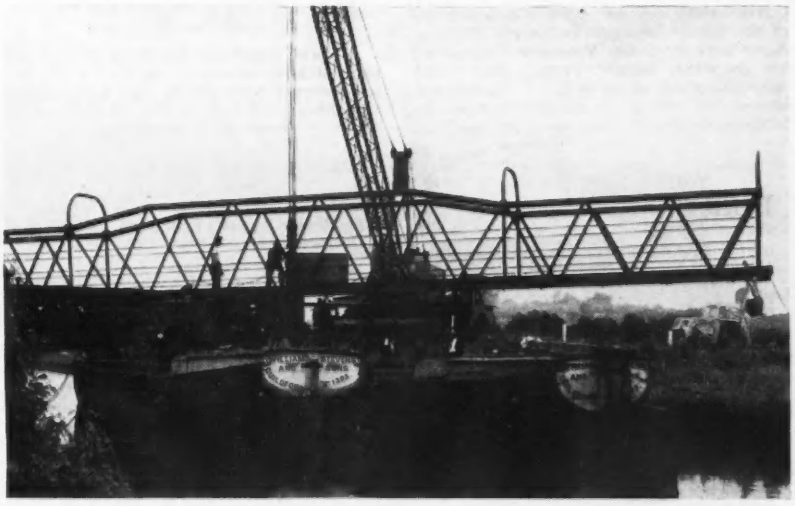
The British Aluminium Co., Ltd., are supplying the 300 tons of alloy required, and the structure is to be erected by D. Anderson and Son, Ltd., Stretford, Manchester.

HOSPITAL DESIGN AND BUILDING EXHIBITION

New hospital building now increasing in tempo is likely to develop in the next few years into the biggest programme of hospital construction ever undertaken in Britain.

To mark this expanding development the Ministry of Health, in co-operation with the Royal Institute of British Architects, has organised an exhibition on hospital design and building. This is being held at the R.I.B.A. in London until July 23.

Because of the brick shortage, Haverhill U.D.C. are considering the erection of non-traditional houses on the L.C.C. housing estate at Parkway.



An 80ft. steel Tubewright bridge designed to carry a 12in. cast-iron main over the River Wey was recently floated down the river between Guildford and Godalming. The bridge was prefabricated and painted near the point of loading, which was ½-mile above the pre-constructed concrete bridge piers. It was loaded on to falsework built on two 90-ton barges, manoeuvred into position and then, as pictured here, lowered on to the piers. The bridge was designed by Tubewright, Ltd., and the placing operation supervised by Mr. R. T. Stafford, a director of the contractors, Nicholson Construction Co., Ltd., Cranleigh, Surrey. The main will form part of the supply system of the Guildford and Godalming Water Board

BRICK SUPPLIES

To the Editor of "The Contract Journal."

Sir,—I feel compelled to join issue with your contributor "John Sumner" respecting his paragraph on the matter of brick supplies. Two sections of his criticism of the brick manufacturers appear to indicate some lack of knowledge of the true position.

He asserts that manufacturers should have foreseen the present position "some two or more years ago" and have made plans then for increasing their productive capacity. Surely your correspondent cannot know what the brick position was two or more years ago, the very time when the brick industry was experiencing a bitter recession in demand due to the operation of the credit squeeze. Very considerable stocks of bricks were held all over the country, and many works were compelled to close down, and those who survived only did so by reducing output to avoid stacking yards until there was no space left—at which point closure inevitably follows. Your contributor accuses the manufacturers of inability to see into the future, but does not this also apply to the building industry, the government, the local authorities, commercial undertakings and even the private individual? Did anyone at that time suggest unwanted millions of bricks should be supplemented by still more millions? Nor particularly did there appear from any source the offer of the necessary financial resources that the increased productivity would have entailed. Of course not, for "the squeeze" was on and not even "John Sumner" told us then that conditions in 1960 would be otherwise.

My other point is the suggestion that a conference of interested parties should issue a joint statement on "the brick supply and price position over the next five years"! The supply position might be a matter of an approximate estimation, but as price must ever be dependent on costs what conference could produce any serious forecast on that in this age of repeated wage increases, apart from fuel—the second major cost in brickmaking.

In conclusion I would inform your contributor that his generalisation as to "black market prices" is totally untrue in respect to at least one undertaking with which it has been my privilege to be connected for the past 40 years.

Yours, etc.,

E. SIMPSON,
Chairman and Managing Director.
Berry Hill Brickworks, Ltd.
Stoke-on-Trent.

LICENTIATE DISCUSSION CLUB

Sir,—On Thursday, June 23, the Licentiate Discussion Club held an extraordinary general meeting to adopt revised rules of the club.

The advent of these rules is another step in the recent reorganisation of the Institute of Builders, and brings into line the membership structure of the club.

The name of the club has been changed to "The Institute of Builders' Discussion Club" since both Associates and Licentiates will be corporate members of the club in future. Its aims and objects have been widened to include the encouragement of overseas visits and liaison with other professional bodies. Non-corporate membership has been widened to include the new classes of Probationer and Student members of the Institute. Provision is made for Fellows resident outside London to obtain non-corporate membership if they desire it until such time as a branch of the Institute is formed in their area, when their Club membership will cease. Composition of the executive committee and centre sub-committees has been expanded in order to deal with the ever increasing activities of the club.

Yours, etc.,

D. T. WINTER,
Honorary Secretary to the Club.
The Institute of Builders.

International Construction

BRITISH ARCHITECTS REPAIR ROMAN AQUEDUCT

Ministry Works in Embassy Grounds

THE Ministry of Works has just finished an interesting operation in the preservation of a Roman antiquity —the first its Ancient Monuments branch has ever tackled outside the United Kingdom.

The subject was a section of the famous Claudian Aqueduct which passes through the gardens of the British Embassy in Rome, its arches rising in some places to over 60ft. above ground level. The work has been done by Ministry architects with Italian labour, and with the full approval and approbation of the Italian authorities.

The section of the aqueduct standing on Embassy property is 1,200ft. long and comprises 36 bays, some of which are missing though the majority remain. The last time any major repairs were carried out was in about 1830-33, by the Princess Wolkonsky, original owner of the property which was taken over by the British authorities as the Embassy in 1947. Nine years later it was noticed that some of the arches, through which staff frequently have to pass, were in a dangerous condition and that the whole structure was in need of extensive repair. The Ministry of Works therefore prepared a scheme and, after agreement with the Rome authorities, work began in November, 1958. The repairs have been carried out entirely to British ancient monument standards and techniques; the total cost has been £11,500.

Branch of Main Structure

The part of the Claudian Aqueduct affected was actually a branch off the main structure, built by Nero to take water up to the Palatine Hill. It is usually known as the Aqua Neroniana. It had two tiers of arches, the lower of which is now partly buried in almost all sections. In the days of the Roman Empire it must have been over 80ft. high in parts. The greater part now visible was repaired two or three times in the late first and second centuries A.D. and was more thoroughly repaired by Septimus Severus and Caracalla in A.D. 201. Further repairs were carried out in the fourth and fifth centuries.

Running as it does through the grounds of the Villa Wolkonsky, the aqueduct divided the area into roughly two parts. On the south side are the formal gardens and the villa, which is now the Ambassador's Residence. Another building, now forming the Administration Offices, is attached to both sides of the aqueduct in such a manner that the main structure forms a spine wall running through the middle of the buildings, access between the two halves being obtained through the arches of the aqueduct.

Main Core

The main core of the aqueduct is built of rubble most of which is tufa, a soft stone of volcanic origin. It is faced with brickwork and of particularly high quality are the brick arch rings which form a striking feature of the aqueduct. Many of the arches had been robbed for the value of the bricks hundreds of years ago and this, plus natural decay, had left large areas of corework exposed to further dilapidation. Above a number of arches the floor of the original water channel was found to be supported only on the core remains of the arch and in these cases it was necessary to insert reinforced concrete beams in the thickness of the channel floor to span the weakened arches and to support the corework below on iron straps hung from the beams. Large areas of loose brickwork have been strengthened in position by the insertion of concealed bronze anchor bars.

Tree roots growing very deeply into the core of the structure presented a major problem and had to be extracted, which involved in some cases the lifting of the original concrete floor of the water channel in sections, removing the roots and other growth, then rebedding it in its original position.

Although the arched top of the water channel has disappeared, much of its flooring still remains together with considerable lengths of the walls. The channel was filled with the debris of ages and many tons of rubbish had to be carted away.

The senior architect of the Ministry of Works in charge of the operation was Mr. T. A. Bailey, M.B.E., with the advice of the Ministry's Chief Inspector of Ancient Monuments, Mr. P. K. Baillie Reynolds, C.B.E., T.D., and he had the co-operation of the Italian architect in charge of Rome Aqueducts, Professor Vincenzo Piccini, and his assistant, Signor Testa. Day-to-day supervision was given by Mr. T. Zavishlock, one of the Ministry's ancient monuments foremen of works, sent out from the U.K.

BRITISH CONSULTANTS FOR ITALIAN CAR PLANT

PRODUCTION-ENGINEERING, LTD., 12 Grosvenor Place, London, S.W.1, have secured a major assignment with the Italian car manufacturers, Alfa-Romeo S.P.A.

At a cost of around £50m., Alfa-Romeo are building a new plant near Milan, and Production-Engineering have been appointed co-ordinating consultants for the project. This is the largest European contract to date for this company since it entered the European Common Market by forming a Continental company—Production-Engineering Société Anonyme—last year.

100-TON CRAWLER CRANE ORDER

A contract has been placed with A. Long and Co., Ltd., 45 Parliament Street, London, S.W.1, by Abu Dhabi Marine Areas, Ltd., for the supply of a Manitowoc 100-ton hammerhead crawler crane with a 100ft. boom.

The crane, which has a lifting capacity of 80 tons at 15ft. and 50 tons at 20ft., will be used for handling 35-ton sheet piles, and at a later date will be mounted on a spud barge working in connection with the Abu Dhabi Marine Areas-Das Island Oil Production scheme.

Motive power for the machine will be a Caterpillar D342 diesel engine, with dual control, i.e., manual and air operation, the machine being equipped with independent lighting set, and power controlled lowering.

The value of the contract is more than £45,000.

OVERSEAS ORDERS FOR SIGMUND PUMPS

Sigmund Pumps, Ltd., Team Valley, Gateshead, 11, have received a contract from the Cuban Government for a number of pumping stations with a total output of 325,000 g.p.m., including borehole pumps of an output of 6,000 g.p.m. Value of the contract is about $750,000.

The company has also received an order for 50 pumping sets to a total value of £80,000 for the U.S.S.R. These are to be incorporated in complete sugar factories supplied by Vickers and Bookers as part of a £10m. contract.

COPPERBELT SHAFT-SINKING RECORD

A new Northern Rhodesia Copperbelt shaft-sinking record of 415ft. in 30 days has recently been set by The Cementation Co. (Rhodesia), Ltd., at No. 14 shaft on the Mufulira West mine extension.

FOR THE DIARY

July 14
Meeting of the Southern Counties branch of the Contractors Mechanical Plant Engineers, The Red Lion, West Street, Epsom, 7.30 p.m. Film show.

July 20-24
Institution of Municipal Engineers. Northern Districts Summer School at the University of Sheffield.

July 26
Meeting of the Mid-Southern branch of the Contractors Mechanical Plant Engineers, The George Hotel, Caversham Bridge, Reading, 7.30 p.m. Film "The Motorway" will be shown.

Aug. 30-Sept. 3
Royal Institution of Chartered Surveyors. Annual conference at the University College of North Wales, Bangor.

Sept. 8
Meeting of the Southern Counties branch of the Contractors Mechanical Plant Engineers, The Surrey Tavern, Morden Road, Morden, 7.30 p.m. Film show.

Sept. 9
Building Surveyors' Institute Dinner Dance, Waldorf Hotel, London.

Sept. 13
Eighth annual residential study course arranged by the South-Western District of the Institution of Municipal Engineers. Dillington House, Ilminster, Somerset. Sept. 13-15.

Sept. 21
Conference of the British Waterworks Association, Edinburgh, Sept. 21-23.

Oct. 3
Conference of the Institute of Quarrying, North British Hotel, Edinburgh, Oct. 3-6.

Oct. 6
Convention on Parking arranged by the Institution of Municipal Engineers at Caxton Hall, London, 10 a.m.

Oct. 11
Building Trades Exhibition, City Hall, Deansgate, Manchester, Oct. 11-22.

Oct. 14
Annual dinner and dance of the Institute of Quantity Surveyors at the Trocadero Restaurant, London, W.1.

Oct. 18
Effluent and Water Treatment Exhibition and Convention, Seymour Hall, London, Oct. 18-21.

Oct. 19
Annual general meeting of the Institute of Quantity Surveyors at 6.30 p.m.

Oct. 21
Annual dinner of the Society of Engineers at the House of Commons.

Nov. 14
Public Works and Municipal Services Congress and Exhibition, Olympia, London, Nov. 14-19.

Trade Section

INTERNATIONAL HARVESTER INTRODUCE NEW CRAWLER TRACTOR

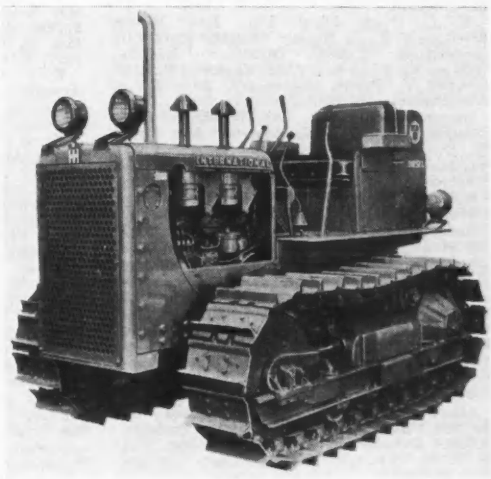
PRODUCTION of a new crawler tractor—the BTD-8 (80 series), has been announced by International Harvester Company of Great Britain, Ltd., Harvester House, 259 City Road, London, E.C.1.

Ideal power to weight ratio, balanced construction, operator comfort—and economical price—are claimed as the main features of the BTD-8. The specially designed International BD-281 engine develops 60 b.h.p. at a rated governed speed of 1,600 r.p.m. Maximum torque is 225lb./ft. at 1,100 r.p.m.

A choice of two transmissions is available. One with five forward and one reverse, gives a range of speeds between 1.8 and 5.4 m.p.h. forward and 2.1 m.p.h. in reverse. Optional is the four forward and two reverse speeds transmission.

New in the transmission is the use of 30 degree angled spiral bevel gears giving extra gear mesh and strength to this major component. A flexible coupling in the drive line absorbs shock loads from the track sprockets protecting the transmission. For steering, IH rely on the single-coil multi-plate clutches with new sintered-metal facings.

The BTD-8 weighs 10,600lb. Price of the basic tractor is quoted as £2,150 ex Doncaster works.



BTD-8 tractor

TS-14 SCRAPER DEMONSTRATED AT CRYSTAL PALACE

THE first Euclid 14yd. twin scraper to arrive in this country gave an impressive performance last week when it was demonstrated at the Crystal Palace site where M. J. Gleeson (Contractors), Ltd., are constructing the National Youth and Sports Centre for the London County Council.

Known as the TS-14, it has a struck capacity of 14 cu. yd.; heaped 3:1 slope, 16 cu. yd.; and heaped S.A.E. 1:1 slope, 20 cu. yd. The model is powered by two G.M. 4-71 engines, each with separate Allison torquematic drive, giving a total engine horsepower of 296.

At the demonstration, the advantages of the new "easy load" bowl and all-wheel drive were readily noticeable.

As reported in *The Contract Journal* on May 19, this scraper is now in full production in America. A British-manufactured model, powered by a Leyland engine, is expected to be available later in the year.

Further details may be obtained from Blackwood Hodge, 25 Berkeley Square, London, W.1.

TS-14 scraper operating at Crystal Palace site

DORMAN LONG'S £6.8M. DEVELOPMENT PLAN

DORMAN LONG (STEEL), LTD., who last year completed their £60m. post-war development programme, last week announced plans for further improving efficiency and increasing iron and steelmaking capacity.

The Iron and Steel Board has approved proposals by the company to install a sixth 360-ton tilting open-hearth furnace and a third 600-ton mixer at their Lackenby steel plant. Facilities will be provided for the full application of tonnage oxygen steelmaking techniques to all open-hearth furnaces at Lackenby. Approval has also been given to the building at the Clay Lane blastfurnace plant, Cleveland Works, of a third 27ft. 6in. hearth blastfurnace of 1,500 tons a day capacity.

The total estimated capital expenditure is £6,819,000. Work on these developments will begin immediately and member companies of the Dorman Long Group will be responsible for construction. It is anticipated the new units will be in operation by the end of 1961.

DAVID BROWN REGROUPING

The David Brown Corporation; Ltd., have separated the tractor, agricultural machinery and automobile sides of their business from the gear, foundry and tool operations.

A new company, David Brown Tractors, Ltd., will take over the undertaking and net assets of the tractor division of David Brown Industries, Ltd., and will become the parent company of the tractor group; Aston Martin Lagonda, Ltd., will take over the undertaking and net assets of the automobile division and will become the parent company of the automobile group; and David Brown Industries, Ltd., after the changes set out above, will be the principal operating company of the gear, foundry and tool divisions.

The sale of the group's products will continue to be made through the David Brown Corporation (Sales), Ltd.

MUSKEG DIESEL TRACTOR

A diesel version of the "Bombardier" Muskeg tractor is now available, powered by a Perkins type Six 305 (1) six-cylinder, water-cooled, vertical industrial diesel engine.

The Muskeg tractor, of Canadian origin, has a one-man cab and a track assembly consisting of two double rubber tracks reinforced with steel cable, each having 144 heavily profiled cross links. Each track-band runs on eight wheels with pneumatic tyres. The tracks are driven by four special rubber gear wheels with reinforcing and steering is by two brake bands acting directly on the differential. The welded all-steel chassis is watertight up to platform height.

Further details may be obtained from Rolba Co., Ltd., 88 Rochester Row, London, S.W.1.

NEW VENTILATOR BY COLT

A ventilator which by a simple cord control can be opened up wide to the sky, increasing its extract capacity by a half is now being manufactured by Colt Ventilation, Ltd., Surbiton, Surrey.

For normal extraction the top cover-flaps rest on stops, giving complete weathering. A pull of the control cord, lifts the flaps of the top cover into the vertical position, giving the ventilator a clear opening. When the flaps are dropped into the third position the ventilator is completely sealed.

The O/S.R. ventilator is designed on aerodynamic principles with aerofoil curves, which produce positive extraction rates from the combined effects of stack action and wind.

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

A. W. Coppin, Ltd., builders. £2,000. Directors: Arthur W. Coppin and Mrs. K. M. M. Coppin, Cleveland, Grove Green Lane, Weavering, Maidstone.

F. E. Hepton, Ltd., 2 Wentworth Mansions, Keats Close, N.W.3, builders. £100. Directors: Fredk. E. Hepton and May D. Hepton, 27 Marnock Road, S.E.4.

J. Phipps (Builders), Ltd., 134 High Street, Brierley Hill. £500. Permanent directors: John F. Phipps, 15 Bridgewater Crescent, Dudley; Edward H. Lyde, 134 High Street, Brierley Hill.

Liscrete, Ltd., precast concrete units. £1,000. Directors: Brian E. Forsey, Whitewates, Ingham Road, Bawtry, Doncaster; Robina M. Forsey, address not stated. Subscribers: B. E. Forsey and Mrs. Rona M. Forsey, Whitewater, Ingham Avenue, Bawtry, Doncaster.

Yeadons (Builders), Ltd., Imperial House, 34 Manchester Road, Bradford, 5. £400. Directors: Douglas R. Yeadon; George Pinkney, 1129 Bolton Road, Eccleshill, Bradford.

D. G. Phillips (Bosham), Ltd., builders. £15,000. Directors: Dennis G. Phillips and Mrs. Margaret R. Phillips, Denfran, Main Road, Nutbourne, near Chichester.

R. J. Harris (Building Contractors), Ltd., 13 Woodside Road, Irby, Wirral. £2,500. Directors: Ralph J. Harris, 13 Woodside Road, Irby, Wirral; Peter J. Swann, 159 Irby Road, Irby.

Parham and Deeks, Ltd., builders. £100. Directors: Ronald E. Parham, 15 Mill Lane, Luton Chatham; Reginald G. Deeks, 1 Lee Road, Luton Chatham.

R. Harris and Son (Braunton Builders), Ltd., Orchard Road, Barnstaple, N. Devon. £3,000. Directors: William A. Reid, The Retreat, North Street, Braunton; Robert J. Harris, The Brackens, Saunton, Braunton; Alan R. Harris and George H. Harris.

Denis Gray, Ltd., builders. £1,000. Directors: Denis G. Gray and Mrs. C. T. Gray, 133 Leamington Road, Coventry.

Dixon and Hogg, Ltd., 29 Mint Street, Lincoln, builders. £10,000. Directors: Eric A. Dixon, Beech Avenue, Nettleham, Lincs.; Denis Hogg, 75 Broadway, Lincoln.

G. E. Dawson (Plant Hire), Ltd., Straits Road, Lower Gornal, Staffs. £1,000. Directors: George E. Dawson and Mrs. C. I. Dawson, 5 Norfolk Road, Hollyhall Estate, Dudley, Worcs.

Fencing Construction Co., Ltd. £2,000. Directors: Not named. Subscribers: Dorothy M. Graeme and Gordon V. Graeme, 61 Fairview Avenue, Gillingham, Kent.

H. Greenall and Son, Ltd., Balfern Fold, Church Street, Westhoughton, contractors. £2,000. Directors: Harold Greenall and Jas. A. Greenall, 98 Church Street, Westhoughton.

Johnard, Ltd., 34 Waterloo Street, Birmingham, 2, building contractors. £1,000. Directors: To be appointed by subscribers. Subscribers: Chas. T. Winterton (solicitor) and Leslie E. Staunton (clerk), 34 Waterloo Street, Birmingham.

K.L.E. (Plant Hire), Ltd., Kew House, Breakspear Road, Ruislip, Middx., plant hire contractors. £1,000. Directors: Kenneth Wilson, 326 Field End Road, Eastcote, Ruislip; Leonard C. Payne, Highmeads, Bury Green, Wheathampstead, Herts.

Melton Decorations, Ltd., builders. £100. Directors: Michael I. Gardner and Mrs. Meryl M. D. Gardner, 111 Eaton Square, S.W.1 (permanent).

Freeman and Spooner, 73 Haydons Road, S.W.19, builders. £1,000. Directors: Joseph Freeman, 17 Middleton Road, Morden, Surrey; Douglas J. Spooner, 13 Rectory Lane, S.W.17.

J. H. and W. Bell, Ltd., Pocket Nook Lane, Lowton St. Marys, near Warrington, builders. £5,000. Directors: John E. H. Wolff, The Grange, Gores Lane, Formby, Lancs.; Edward J. Shaw, 7 Chestnut Avenue, Leigh, Lancs.

Major Builders (Scarborough), Ltd., 9 Alma Square, Scarborough. £2,000. Directors: Douglas H. Major, 19 Prince of Wales Terrace, Scarborough; Miss Edith A. Shepherd, 28 Grosvenor Crescent, Scarborough.

Alfred Roberts (Glan Conway), Ltd., Ty Newydd, Glan Conway, Denbighs, builders. £5,000. Directors: Alfred Roberts and Mrs. M. T. Roberts, Ty Newydd, Glan Conway, Denbighshire.

Bonner and Son, Ltd., 6 Oldridge Road, S.W.12, builders. £1,000. Directors: Alfred P. G. Bonner and Mrs. L. V. Bonner, 128 Ramsden Road, S.W.12.

Birmingham Truck Mixed Concrete, Ltd. £100. Directors: Geoffrey W. Taylor, Little Gains, Rushock, near Droitwich, Worcs.; Howard V. Wilkes, 268 Kingsway, Wollaston, Stourbridge; Robert G. Horton, Stephen Lloyd and Wm. G. A. Russell.

E. Cockshaw, Ltd., Elms Chambers, Bradley Street, Castleford, builders. £2,000. Directors: Edwin Cockshaw and Winifred Cockshaw, Trevispen, Rakehill Road, Scholes, Leeds.

E. J. Fleming, Ltd., builders. £10,000. Directors: Ernest J. Fleming and Mrs. Elsie Fleming, 54 Westerham Road, Bessels Green, Sevenoaks, Kent.

E. W. Dimery and Sons, Ltd., Abwell, Wanswell, near Berkeley, Glos., builders. £2,500. Directors: Marjorie D. Dimery, Hazeldene, Abwell, Wanswell, near Berkeley, Glos.; Brian E. P. Dimery, Fontenet, Stock Lane, Berkeley, Glos.

Bridges and Grove, Ltd., 19 and 20 Dudley Street, Kidderminster, builders. £10,000. Directors: John V. W. Bridges, 9 Cedar Crescent, Kidderminster, Eric W. Grove, Flat 2a Ideal Buildings, Mill Street, Kidderminster.

Excavations (Doncaster), Ltd., 29 Thorne Road, Doncaster. £10,000. Directors: George T. Buckenham and Mrs. Nancy Buckenham, 11 Brompton Road, Sprotborough, near Doncaster.

H.B. Construction Co., Ltd., builders. £1,000. Directors: Herbert Brill and Mrs. Ruth B. Brill, 23 Talbot Crescent, N.W.4.

Colvin-Smith (Construction), Ltd., 19 Railway Street, Newcastle upon Tyne, builders. £1,000. Directors: Peter M. Colvin-Smith and Mrs. D. A. Colvin-Smith, Roughside, Eastern Way, Ponteland.

K. F. Farleigh, Ltd., 6-8 Sherborne Road, Newton Abbott, Devon, builders. £3,000. Directors: Kenneth F. Farleigh and Mrs. C. H. Farleigh, 38 Gestridge Road, Kingsteignton.

Trend Construction Co., Ltd., 25 Brazennose Street, Manchester, builders. £1,000. Director: Richard A. Duxbury, 20 Beeston Road, Sale, Ches.

F. Whitmore and Co., Ltd., 131 Upton Road, Moreton, Wallasey, builders. £1,000. Directors: Frank Whitmore and Mrs. Hilda Whitmore, 131 Upton Road, Moreton, Wallasey.

G. J. S. Rowland and Co., Ltd., 63 Fenton Road, West Southbourne, Bournemouth, builders. £300. Directors: George W. Rowland, Christchurch Road, Dudsbury, Ferndown, Dorset; Jim Whitfield, 22 Irving Road, Southbourne, Bournemouth; Sidney H. Singleton, 77 Broadway, Southbourne, Bournemouth.

Lucas and Mason (Builders), Ltd., 33 The Temple, 24 Dale Street, Liverpool. £1,000. Directors: John H. Mason, 99 Thomas Lane, Liverpool, 14; George B. Lucas, The Bungalow, Wootton Park, Wootton, Liverpool.

R. A. Lucas and Co., Ltd., 196 Castelnau, Barnes, S.W.13, builders. £1,000. Directors: Albert J. E. Lucas, 3 Lambrook Terrace, S.W.6; Ronald A. Lucas, 50a Danehurst Street, S.W.6; Terence Hogan, 9 Woodlands Avenue, New Malden, Surrey.

Wolverhampton Industrial Roofing Co., Ltd., Oak Works, Oak Lane, Kingswinford, Staffs. £100. Directors: Robert C. Holland and Robert M. Holland, Warren Garth, Dunsley, Stourbridge; Arthur W. Thorne and Wm. S. Perks.

Seen working on a bridge construction site in the Midlands is the first Drott 9K3 to be supplied with a side-tipping bucket in this country. It was sold by Saville (Tractors), Ltd., to Bowyer Plant, Ltd., Birmingham, and is hired to C. Bryant and Son, Ltd., Birmingham

TRADE NEWS IN BRIEF

Arup and Arup, Ltd., announce that the address of their London office is Bilton House, 54-58 Uxbridge Road, Ealing, W.5. Tel.: Ealing 4754 (six lines).

The Astley Industrial Trust, Ltd., announce that their offices at 2a Eldon Place, Manningham Lane, Bradford, and 40b Preston New Road, Blackburn, have become full branches under the management of Mr. J. D. Milner and Mr. H. Shorrock, respectively.

Tarmac, Ltd., have acquired the whole of the issued capital of **Harper and Thomas, Ltd.,** who own a quarry at Bayston Hill, near Shrewsbury.

From **The Hunslet Engine Co., Ltd.,** 125 Jack Lane, Leeds, 10, a copy of their new leaflet illustrating the MT.25 mines tractor.

J. E. Lesser and Sons, Ltd., Green Lane, Hounslow, Middx., have prepared a new publication on "Middlesex" PB.4 prefabricated buildings.

Leaflets describing their latest granular weed-killer "Chlorea," have been received from **Chipman Chemical Co., Ltd.,** 2 Caxton Street, Westminster, S.W.1.

Bray Construction Equipment, Ltd., have appointed **William R. Selwood, Ltd.,** Chandler's Ford, near Winchester, sole agents in Hampshire, Wiltshire, Dorset, Somerset and Berkshire for their hydraulic loading shovels.

Richard Sutcliffe, Ltd., announce the formation of a subsidiary company, **Sutcliffe Plant Hire, Ltd.,** 14a Bond Street, Wakefield. Tel.: Wakefield 6433.

On July 11, **United Dominions Trust** opened a new branch office at 63 Western Hill, Durham. Tel.: Durham 2243/4.

British Insulated Callender's Cables, Ltd., have opened their new West London depot at Silverdale Road, Hayes, Middx. Tel.: Hayes 8241. In charge will be Mr. T. W. Hills, formerly a sales representative with London branch.

Forward Trust, Ltd., have opened new branches at Midland Bank Chambers, 139 North End, Croydon; Cornwallis House, Pudding Lane, Maidstone; 29 High Street, St. Albans; 44/46 Windsor Road, Slough.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Aberdeen.—Scottish Agricultural Industries, Ltd., 39 Palmerston Place, Edinburgh, 12, propose to reconstruct their Sandilands chemical works. Estimated cost £1m. Work is expected to start this year.

Accrington, Lancs.—Co. E.C. recommended to approve expenditure of £13,962 for extra classrooms at Girls' High School; £8,474 for two classrooms and a kitchen at Woodnook Street School, and £10,912 for new toilets, staffroom and kitchen at Samlesbury C of E. School.

Ashton-under-Lyne, Lancs.—Park Sheet Metal Co., 114 Park Street, are to erect sheet metal works at the junction of Hill Street and Cavendish Street.

Barnsley, Yorks. — B.C. have approved sale of land on the Yews Farm estate to the Methodist Council for the erection of a church.

B.C. to apply for sanction to borrow £2,000 for provision of new dance floor at the Baths Hall.

Battersea.—L.C.C. approved plans for the conversion and modernisation of 12 three-storey houses at Rosenau Road. Estimated cost £39,700.

Belfast. — White, Tomkins and Courage, Ltd., 102 Corporation Street, propose to rebuild and re-equip part of their premises. Estimated cost £100,000.

Bishop Auckland, Dur.—M. C. Robson and Son, Station Chambers, preparing plans for office block for Wilson's Forge; Commercial and Suburban Properties, Ltd., New Bond Street, London, W.1, propose shops in Newgate Street to plans by Morris De Metz, 29 Gloucester Place, Portman Square, London, W.1.

Bispham, Lancs.—Parochial Church Council have approved preliminary plans for parish church's dual-purpose building in North Drive. Working drawings are being prepared.

Bolton, Lancs.—M.E. have approved in principle the provision of hostel accommodation on the Ash Lawn site, together with kitchen-dining facilities for the Technical Teacher Training College.

B.C. recommended to approve plans for extension and alterations to premises, St. Bede's Primary School, Haynes Street, for the Parochial Church Council, and for alterations to premises in Hind Street to form classroom accommodation, for E.C.

Bradford, Yorks.—City Architect to proceed with preparation of plans for extension to Town Hall.

City Council recommended to approve the erection of traction sub-station and installation of equipment at Bolton Junction. Estimated cost £3,599.

City Council recommended to approve sketch plans and instruct Scherrer and Hicks, architects, 19 Cavendish Square, London, W.1, to prepare working drawings and invite tenders for the erection of South Bradford Secondary School.

City Council recommended to appoint Norman and Dawbarn, architects and civil engineers, 7 Portland Place, London, W.1, to prepare preliminary layout of the terminal area, preliminary plans of the terminal building, freight store and C.R.F.S. building, together with approximate estimates of cost of works in the terminal area at the airport.

Camberwell.—The Governors of Mary Datchelor Girls' School propose the erection of a new science wing and improvements to the existing accommodation. Estimated cost £50,870.

L.C.C. to rebuild Elfrida Rathbone secondary school, Reddins Road. Estimated cost £83,350.

L.C.C. approved improvements at Peckham Manor School. Estimated cost £11,271.

L.C.C. approved plans for improvements at Honor Oak School. Estimated cost £69,585.

Carlisle.—Edwin M. Lawson, Barras Buildings, Barras Bridge, Newcastle upon Tyne, is the architect for television centre, Durranhill industrial estate, for Border Television, Ltd.

Cheltenham, Glos.—B.C. recommended to instruct the Borough Surveyor to prepare plans for the erection of a new bath with an adjoining instructional bath to be erected on the land adjoining Sandford Park swimming pool.

B.C. recommended to approve plans for machine shop extension of 2,325 sq. ft. to existing industrial premises at Kingsditch Lane, for Aerocraft, Ltd.; outline application for erection of a building of 62,676 sq. ft. at Alstone Lane, for the Gloucestershire Marketing Society, Ltd., Market Street.

Chorley, Lancs. — Ministry have approved in principle scheme for extensions to nurses' home at Chorley and District Hospital, for Manchester Regional Hospital Board. Working drawings and bills of quantities to be prepared, prior to obtaining tenders, with a view to work being carried out during 1960-61.

Cumberland.—C.C. to carry out alterations to Irthing Valley Secondary School, Brampton. No contracts let.

Dagenham, Essex.—Local Education Authority have approved scheme for the erection of two science laboratories at Lymington Secondary School, for B.C. Estimated cost £12,000.

Deptford. — L.C.C. to rebuild the war-destroyed Trundley's Road primary school. Estimated cost £74,980.

Doncaster, Yorks.—B.C. recommended to apply for Ministry approval for erection of new health clinic in the civic centre.

R.D.C. recommended to approve planning permission for the erection of a permanent community centre to replace existing buildings in Sprotborough Road, Sprotborough.

Doncaster.—Co-operative Society, Ltd., are to erect a self-service supermarket at Balby. Estimated cost £50,000.

Dublin, Eire.—Michael Scott, 19 Merrion Square, is the architect for television studio buildings to be erected at Montrose, Stillorgan Road, for Radio Eireann.

Exeter. — City Council recommended to proceed with scheme for the provision of two further rows of pens in the fat cattle shed at the Cattle Market. Estimated cost £1,000.

Fulwood, Lancs.—Handicrafts and social centre for the blind is to be erected as an annexe to the Institute for the Blind in Lytham Road. Estimated cost £3,000.

Grange, Lancs.—U.D.C. to proceed with improvements and modernisation of Victoria Hall. Estimated cost £7,500.

Grangemouth, Stirlings.—Dean of Guild Court have approved the erection of three new plants, a cooling tower and offices, for British Hydrocarbon Chemicals, Ltd., Devonshire House, Mayfair Place, London, W.1. Estimated cost £816,500.

Great Yarmouth, Norfolk. — B.C. recommended to apply for sanction to borrow £2,115 and £2,000, respectively, for improvements to toilets at Nelson and St. George's Schools and Northgate/St. Andrew's School.

Greenwich.—L.C.C. approved plans for the second stage of the Brookmill Primary School at Lewisham Road. Estimated cost £62,470.

Hampstead.—L.C.C. approved a scheme for the adaptation and extension for a new secondary school of the premises occupied by Haberdashers' Aske's Hampstead School, Westbere Road. Estimated cost £380,650.

Harrogate, Yorks.—£750,000 approximately is to be spent on improvements to the Army Apprentices' School in Penny Pot Lane during the next two years.

Harrogate, Yorks.—B.C. recommended to approve plans for alterations and reconstruction of departmental store at Parliament Street/Oxford Street, for Busbys (Bradford), Ltd., Manningham Lane, Bradford.

Hebburn, Dur.—U.D.C. approved plans for erection of police flats, office, etc., in Caledonian Street.

Hexham, Northumb. — U.D.C. Pleasure Grounds Committee approved £15,000 scheme for heated open-air swimming pool at Tyne Green.

Heywood, Lancs. — Co. E.C. have approved the erection of two classrooms and two pairs of gates, etc., at Regent Street County Secondary School. Estimated cost £4,000.

Heywood, Lancs.—B.C. recommended to approve further plans by Charles B. Pearson and Son, 24 Loxford Street, Manchester, 15, for erection of new baths, for submission to the Ministry.

Houghton-le-Spring, Dur. — Fennell and Baddiley, Bridge End Chambers, Chester-le-Street, are the architects for shops and offices in Sunderland Street, for K. Harrison.

Hutton, Lancs.—Co. E.C. have approved the erection of a horticultural instruction building at the County Institute of Agriculture. Estimated cost £1,500.

Inverness-shire.—Education Authority are to undertake a school modernisation programme costing more than £1m. Most of the work will be started within three years.

Islington.—L.C.C. approved a scheme for rebuilding Highgate Hill nursery school. Estimated cost £21,566.

Leven, Fifes.—Henry Balfour and Co., Ltd., Durie Foundry, Leven, propose extension works, including a new boiler shop, rolls and presses. Estimated cost £280,000.

Enamelled Metal Products Corporation (1933), Ltd., Durie Foundry, Leven, propose extensions. Estimated cost £80,000.

Liverpool.—Housing Committee have agreed to lease site in Cherryfield Drive, Kirkby, for building a new family welfare centre, for the Kirkby Council of Social Services.

Morecambe, Lancs.—Morecambe and Heysham Methodist Circuit have approved sketch plans for replacement of Middleton Chapel by a modern church.

Northallerton, Yorks.—R. W. Gregory and Partners, Pilgrim House, Pilgrim Street, Newcastle upon Tyne, have been appointed consulting engineers for additional nurses' accommodation at Friarage Hospital, for Newcastle Regional Hospital Board.

Preston, Lancs.—Manchester Regional Hospital Board Planning and Developments Committee have approved the erection of a new animal house on roof of the laboratory building at Royal Infirmary. Estimated cost £7,000.

Manchester Regional Hospital Board Building and Works Committee have approved in principle scheme for conversion of former pathology laboratory to provide out-patient accommodation at Royal Infirmary. Working drawings and bills of quantities to be prepared.

Rochdale, Lancs. — Manchester Regional Hospital Board Buildings and Works Committee have approved in principle scheme for new out-patient department at Rochdale Infirmary.

Revised scheme incorporating X-ray facilities within the new out-patient department to be submitted to the Ministry for approval in principle with a view to the work being undertaken during 1960-61.

Salford, Lancs.—Manchester Guardian and Evening News, Ltd., 3 Cross Street, Manchester, 2, have purchased 3½-acre site in New Bailey Street, for new premises.

South Shields, Dur. — Newcastle Regional Hospital Board are to erect two-storey sanitary annexe at Ingham Infirmary. P. H. Knighton, chief architect.

B.C. to build public conveniences at Station Approach.

M.E. approved B.C.'s scheme for Whiteleas infants' school to accommodate 240 children. I. Smeds, architect, 56a Camden Street, North Shields.

Sunderland, Dur. — B.C. to submit to the Ministry scheme for improving Roker seafront. Estimated cost £32,000.

Whitehaven, Cumb. — B.C. have approved layout plans for 33 garages at the rear of Homewood Road, Hensingham.

HOUSING SCHEMES

Haslingden, Lancs.—B.C. recommended to approve plans for 36 houses and 16 bungalows (part 5 development), in Grasmere and Rydal Roads, Bentgate Farm estate, for Leonard Frankland (Contractors), Ltd., Feniscowles, Blackburn.

Londonderry.—Ministry have approved the development for housing of a site extending over an acre at Maureen Avenue, for City Council. The Ministry have been asked to

approve an extension of the proposed housing scheme at Nassau Street, to include a further 24 houses. Housing Sub-committee have approved plans for two blocks of combined shops, maisonnettes and flats on either side of Aran Court and Clare Court, Central Drive, at Creggan estate.

PLAYING FIELDS, PARKS, ETC.

Fulham.—B.C. recommended to approve provision of playground facilities at Barclay Close and Fulham Court. Estimated cost £4,000.

Ilford, Essex.—B.C. recommended to approve revised layout for the provision of a Garden of Remembrance at Barkingside Garden of Rest. Estimated cost £4,800.

ROADS, BRIDGES AND SITE WORKS

Scotland.—Scottish Home Department have approved the trunk road improvement scheme for the Ayr-Glasgow Road from Bogend Toll to Templands, Symington. Estimated cost £21,000.

Sheffield.—City Engineer to be authorised to carry out roadworks, etc., in connection with conversion of the existing tram terminus near Millhouses Park into a bus terminus and provision of a bus turning point at junction of Dobcroft Road and Silverdale Road. Estimated cost £2,500 and £750 respectively.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Ipswich, Suffolk. — B.C. have approved, subject to Ministry approval, the appointment of John Taylor and Sons, Artillery House, Artillery Row, London, S.W.1, as consulting engineers, for the preparation of scheme for the reconstruction of the Cliff Quay sewage treatment works. Estimated cost £52,500.

Southwold, Suffolk.—B.C. recommended to apply for sanction to borrow £28,780 for the construction of sewage disposal works to serve the borough and the parishes of Reydon and Walberswick.

STREET LIGHTING

Fulham.—B.C. recommended to approve a scheme for installation of new street lighting in Fulham Palace Road, Fulham Road and Putney Bridge Approach. Estimated cost £12,064.

CONTRACTS

*Full details of the Contracts marked * will be found in our Advertisement Columns.*

BUILDING AND DECORATING

(See also Housing Schemes)

***Altrincham, Ches.**—Installation of baths, lavatory basins, etc., in 24 houses at Urban Estate, for B.C. Deposit £2 2s. Tenders by July 30.

Atcham, Salop.—Construction of a vehicle depot, and incidental works, at Hanwood, for R.D.C. Documents from J. R. Sockett, engineer and surveyor, 24 St. John's Hill, Shrewsbury. Deposit £1. Tenders by Aug. 5.

Belfast. — Following, for City Council: Pointing of (1) external brickwork, etc., at Kelvin Secondary School and caretaker's house, Roden Street; (2) external brickwork and cast stonework, etc., at Grove Primary School, North Queen Street; re-covering of external asphalted flat roofs with felt at Kelvin Secondary School, Roden Street. Documents from the Education Architect's Department, 40 Academy Street, Belfast, 1. Tenders by Aug. 4.

Belfast.—Internal repair and redecoration at St. Paul's Voluntary Primary School, Cavendish Square. Separate tenders are required for the work. Documents from D. J. MacRandal, architect, 17 Malone Road, Belfast, 9. Deposit £3 3s. (cheque only). Tenders by Aug. 2.

Bristol. — Erection of two-storey extension to provide four additional classrooms at Four Acres Primary School, Withywood, for City Council. Apply to City Architect, Council House, Bristol, 1 by July 18.

***Colwyn Bay, Denbighs.** — Extension and alterations at Public Library, for B.C. Tenders by Aug. 5.

Colne Valley, Yorks.—External painting of the following, for U.D.C.: (a) Town Hall, Slaithwaite; (b) Civic Hall, Slaithwaite; (c) Mechanics' Hall, Marsden. Documents from the Engineer and Surveyor, Town Hall, Cross Street, Slaithwaite, on receipt of a stamped addressed envelope. Tenders by July 25.

Dalton-in-Furness, Lancs. — Erection of garages and store for the Highway Depot, Grove Street, for U.D.C. Documents from A. W. Charity, engineer and surveyor, Town Hall, Dalton-in-Furness. Deposit £1 1s. Tenders by July 23.

Down. — Supply and erection of cloakroom fittings in Redburn (New) Primary School, Holywood, for C.C. Documents from Gibson and Taylor, architects, 16 Donegall Square South, Belfast, 1. Tenders by July 21.

Dumbarton.—Redecoration of the Burgh Hall, Church Street, Dumbarton, in the month of September, for B.C. Documents from the Burgh Engineer, Municipal Buildings, Dumbarton. Tenders by July 26.

Durham.—Following works, for C.C.: Felling Wardley County School, reslating of roofs; Jarrow Pine Street St. Bede's R.C. (aided) Girls' Modern School, rebuilding of boundary walls; Sherburn County School, renewal of wood floors; South Moor Greenland County School, renewal of floors in Accotile; Trimdon Modern School, provision of sun blinds; Wingate A. J. Dawson Grammar School, construction of a lay-by for special buses. Applications to County Architect, South Street, Durham, by July 20.

***East Suffolk.**—Offices at Lowestoft, for C.C. Apply by Aug. 5. Tenders by Sept. 6.

East Riding.—Following works, for C.C.: Withernsea High School, installation of engineering services to the extensions, Bridlington, Moorfield County Schools, pointing of brickwork and renewal of spalled bricks; Bridlington, Burlington County Schools, renewal of lavatory basins and urinals. Documents from the County Architect, County Hall, Beverley. Tenders by July 21.

East Sussex.—Provision of additional classroom and reorganisation of cloakroom accommodation, etc., at Portland Road County Junior School, Hove, for C.C. Apply to the County Architect, County Hall, Lewes, by July 30. Selected contractors will be provided with bills of quantities on August 27.

Glendale, Northumb.—External painting of the following, for R.D.C.: (a) 70 post-war houses, Weetwood Avenue, Wooler; (b) 64 houses, High Fair and Broomy Road, Wooler. Documents from the Surveyor, Council Offices, Wooler. Tenders by Aug. 29.

Halesowen, Worcs.—Erection of single-storey assembly hall, staff rooms, lavatories, etc., together with services and other subsidiary works, at Hasbury C. of E. Aided School. Applications, in writing, to J. C. T. Cole and Partners, architects, Central Buildings, Long Lane, Blackheath, Birmingham, by July 20.

Hazel Grove and Bramhall, Ches.—Alterations and additions to the Civic Hall, London Road, for U.D.C. Documents from J. Fleming Andrew, engineer and surveyor, Council House, Hazel Grove. Deposit £2 2s. Tenders by Aug. 2.

***Hendon, Middx.**—Flatted factory at North Circular Road, for B.C. Apply by noon, July 25. Tenders by Sept. 12.

Hitchin, Herts. — Erection of a block of workshops and garages at the Highways Depot, Burymead Road, for U.D.C. Documents from the Surveyor, Council Offices, Brand Street, Hitchin. Deposit £2 2s. Tenders by Aug. 2.

Ilford, Essex.—Erection of a school meals kitchen at St. Augustine's School, Cranbrook Road, Barkingside, for B.C. Applications, in writing, to the Borough Engineer, Town Hall, Ilford. Deposit £2 2s. Tenders by July 26.

***Ilford, Essex.** — Erection of assembly hall and gymnasium at Mayfield Secondary School for Girls, for B.C. Deposit £2 2s. Tenders by July 26.

Kingston-upon-Thames, Surrey. — Structural repairs and redecorations, 50 Washington Road, for B.C. Documents from Borough Surveyor, Guildhall, Kingston-upon-Thames. Deposit £2 2s. Tenders by July 25.

Kirkwall, Orkney.—External painting of the following, for B.C.: (1) Thirty Swedish houses; (2) 20 Cruden houses; (3) 32 Dunedin houses. Documents from Andrew R. Buchan, town clerk, Council Offices, Kirkwall. Tenders by July 23.

Lancashire.—Erection of school clinic at Chorley, for C.C. Building to be of traditional construction, and work to include foundations, site works, services and drainage. Applications to County Architect, P.O. Box 26, County Hall, Preston, by July 18.

Leyland, Lancs.—External painting of a total of 496 dwellings, situated principally on the Broadfield estate, for U.D.C. The tender will be divided into 14 lots, but contractors may tender for one or more lots. Documents from F. D. Howe, engineer and surveyor, Council Offices, Leyland. Deposit £2 2s. Tenders by Aug. 2.

***Lindsey.**—Painting of Bardley Bridge and Keadby Lock Swing Bridge, for C.C. Deposit £1 1s. each contract. Tenders by July 22.

Little Aston, Staffs.—Improvement works to be carried out to two cottages at the Little Aston sewage works, for Little Aston and Streetly Joint Sewage Committee. Documents from the Engineer to the Joint Committee, Rural Council House, Lichfield. Tenders by July 19.

Londonderry.—Cleaning and restoration of the fabric to the Guildhall, for B.C. Documents from the City Engineer and Surveyor, 5 Guildhall Street, Londonderry. Tenders by July 19.

Luton, Beds.—Supplying and fixing laboratory bench fittings, Beech Hill C.S. Boys' School, and Secondary Technical School, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by July 21.

Luton, Beds.—Erection of final extensions, Challney C.S.M. School, comprising assembly hall, gymnasium, changing rooms and classrooms, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by Aug 15.

Manchester.—Supply and erection of one heated timber greenhouse, 51ft. by 10ft. at Fog Lane Park, for City Council. Documents from Director of Parks, Town Hall, Manchester. Tenders by Aug. 22.

Magherafelt, Londonderry.—Alterations and adaptations to courthouse and courtkeeper's quarters, for the Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1, and plans also seen at Ministry of Labour and National Insurance, Local Office, Rainey Street, Magherafelt. Deposit £2. Tenders by Aug. 2.

Mountmellick, Leix, Eire.—Alterations, extension and additions to Parish Church, Mountmellick, Co. Leix, for Very Reverend T. Burbage. Documents from J. R. Boyd Barrett, architect, 5 Cambden Place, Cork. Deposit £10 10s. Plans seen at the offices of the architects and James Sheehan, quantity surveyor, 20 South Mall, Cork. Tenders by July 29.

Neath, Glam.—Erection of a public convenience at Resolven, for R.D.C. Documents from the Engineer and Surveyor, 18 Orchard Street, Neath. Deposit £3 3s. Tenders by Aug. 3.

Northallerton, Yorks. — Repairs and/or renewal of the rendered and pebble-dash exterior of the Council Offices, for R.D.C. Documents from the Surveyor, the Old Vicarage, Northallerton. Tenders by July 26.

Northampton.—Repairs to glazed veranda roofs at Bective Secondary Modern School for Boys and Spencer Secondary Modern School for Boys and Girls, for B.C. Documents from Borough Architect, Guildhall, Northampton. Tenders by July 22.

Ogmore and Garw, Glam.—External painting of 66 traditional houses at Pantyrawel, Blackmill, and 88 traditional houses at Llangeinor, for U.D.C. Contractors may tender for one or both sites. Tenders for each site may be considered and let separately. Documents from the Surveyor, Council Offices, Brynmenyn, Glam. Deposit £2 2s. Tenders by July 21.

Orkney.—All trades (excluding heating installations and painter work) as sole contract for alterations and additions to Papa Westray Primary School, for C.C. Documents from the County Architect's Department, Mounthoolie Lane, Kirkwall. Tenders by July 30.

Perranporth, Corn.—Small hall extensions and minor works, to the present Memorial Hall, for the Memorial Hall Committee. Documents from Miss M. Mitchell, hon. sec., Lake House, Perranporth. Tenders by July 23.

Peterborough.—Erection of first stage of Gunthorpe County Primary School, for Joint Education Board. Works comprise (a) classroom block, containing five classrooms, staff room, entrance hall, toilets, etc.; (b) temporary boiler house; (c) new infants' playground and incidental site works. Applications immediately to Ruddle and Wilkinson, architects, Long Causeway Chambers, Peterborough. Deposit £2 2s., cheques payable to the Peterborough Joint Education Board. Tenders by Aug. 3.

Plymouth.—Conversion of a school playshed into classrooms at the public secondary school for boys, Cobourg Street, for City Council. Applications to the City Architect, Seymour Road, Plymouth, by July 16. Deposit £3 3s., payable to Corporation.

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Poole, Dorset.—Following, for proposed café at Poole Park, for B.C.: (a) The erection of the building which has a superficial area of about 8,000 sq. ft.; (b) the supply of the following items—heating, ventilation and hot and cold water services, electrical installation, metal windows, structural steelwork, built-up flat roofing, terrazzo, floor finishes of various types, and ironmongery. Applications for either part (a) or for any item or items in part (b), to Borough Architect, Municipal Buildings, Poole, by July 18.

Sale, Ches.—Erection of two brick pavilions and ancillary work at (a) Crossford Bridge and (b) Moor Nook (approx. one and a half miles distant), for B.C., both pavilions, etc., shall be conjoined to form one contract. Documents

from Borough Engineer, Town Hall, Sale. Deposit £2 2s. Tenders by July 25.

Samford, Suffolk.—Modernisation of 20 houses at East Bergholt, as follows, for R.D.C.: Fourteen houses, Heath Road; six houses, Orvis Lane. Documents from the Building Surveyor, 25 London Road, Ipswich. Tenders by July 30.

Shepton Mallet, Som.—Painting the exterior of council houses in the parishes of Ashwick, Doulting, Evercreech, Holcombe, Pilton and Stratton-on-the-Fosse, for R.D.C. Applications to T. B. Jordan, engineer and surveyor, Highfield House, Park Road, Shepton Mallet.

Staines, Middx.—Construction of 10 brick lock-up garages, together with a hardstanding on the London Road estate, Stanwell, for U.D.C. Documents from the Engineer and Surveyor, Shortwood House, 240 London Road, Staines. Deposit £2 2s. Tenders by July 22.

Truro, Corn.—Internal and external alterations, repairs and decoration at 31 Lemon Street, for the Hospital Contributory Association (Cornwall), Ltd. Applications to H.C.A., 20 St. Mary's Street, Truro. Tenders by Aug. 5.

Tyldesley, Lancs.—External painting of 48 houses on the Mosley Common estate, for U.D.C. Documents from the Housing Superintendent, Town Hall, Tyldesley. Deposit £2 2s. Tenders by July 30.

Tyrone.—Following works, for E.C.: Repairs to flat roofs at Coagh P.S.; replacement of windows at Glenarney P.S.; (a) floor tiling and (b) plastering, etc., at Union Place P.S. Teachers' Residences; drainlaying at Coolnafranky Playing Fields, Cookstown; repairs to lantern light, etc., at Coolnafranky House, Cookstown. Applications for tender documents, stating which contract it is wished to tender for, to the Chief Education Officer, Education Offices, Omagh. Tenders by July 19.

Wednesfield, Staffs.—External painting of the following, for U.D.C.: Contract (A) 92 dwellings, Wood Avenue (including repairs to rough casting and steel windows); (B) 142 dwellings, various sites in the district; (C) 248 dwellings, Ashmore Park estate; (D) 292 dwellings, Ashmore Park estate. Applications (stating for what contract documents are required) in writing to Thos. A. Peacock, engineer and surveyor, 29 Bolton Road, Wednesfield. Deposit £1 1s. Tenders by July 25.

West Riding.—Construction of 10 cattle grids in the Bowland and Settle Rural Districts, for C.C. Contractors may tender for all or any of the total number of grids. Documents from the Assistant County Surveyor, Croft House, Carleton Road, Skipton. Deposit £1, cheques, postal orders, etc., crossed and payable to the West Riding Treasurer. Tenders by July 21.

West Riding.—Rebuilding boilerhouse chimney and other incidental work at Thorne Moorends Junior Mixed School, for C.C. Documents from J. H. Crabtree, Education offices, Goole. Tenders by July 21.

West Sussex.—Modernisation of kitchen and extensions at Budgenor Lodge, Midhurst (Job No. 6240), for C.C. Quantities will be issued on or about August 23, 1960. Applications to the County Architect, County Hall, Chichester, by July 25.

***Worcestershire.**—Painting of bridges, for C.C. Deposit £2 2s. Tenders by July 25.

CLOTHING AND TEXTILES

Merthyr Tydfil, Glam.—Supply and delivery of the undermentioned clothing, for B.C.: Two hundred and fifty navy blue gaberdine waterproof overcoats, for drivers and conductors; 12 navy blue gaberdine waterproof overcoats, for inspectors. Documents from Town Clerk, Town Hall, Merthyr Tydfil, Glam. Tenders by July 25.

Scotland.—Supply of jackets, trousers, greatcoats, caps, shirts, collars, ties, gloves, etc., for issue in 1961, for the Lothians and Peebles Joint Police Committee. Documents from the Chief Constable, County Buildings, George IV Bridge, Edinburgh, 1. Tenders by Aug. 14.

DEMOLITION

Cheltenham, Glos.—Demolition of 30, 32, 34, 36, 38 and 40 Bath Road, and 142 Swindon Road, for B.C. Documents from G. Gould Marsland, borough engineer, Municipal Offices, Cheltenham. Tenders by July 23.

***Hertfordshire.**—Demolition of properties at Smallford and Buntingford, for C.C. Tenders by July 27.

***Oundle and Thrapston, Northants.**—Demolition of Hemington Water Tower, for R.D.C. Deposit £1 1s. Tenders by Aug. 19.

Sheffield, Yorks.—Demolition of certain buildings situated at the rear of 33 High Street, Sheffield, and bounded by High Court and Hartshead, for City Council. Documents from the Estate Surveyor, Town Hall, Sheffield, 1. Deposit £2 2s., cheques payable to City Council. Tenders by July 21.

York.—Demolition of 16 properties in various parts of the City, for City Council. Documents from Chas. J. Minter, city engineer surveyor and planning officer, 7 St. Leonard's Place, York. Deposit £1, cheque payable to York Corporation. Tenders by July 22.

ELECTRICAL

Havant and Waterloo, Hants.—Installation of power points in 356 pre-war Council houses in seven groups of 28, 25, 24, 117, 56, 58 and 48 houses, for U.D.C. Documents from the Engineer and Surveyor, 1 Park Road North, Havant. Tenders by July 20.

***Islington.** — Installation of floodlighting at Market Road playground, for B.C. Tenders by Aug. 16.

Manchester. — Electrical installations to 65 houses and flats at (contract 317) Maple Road, Brooklands, for City Council. Documents from Director of Housing, Town Hall, Manchester, 2. Tenders by July 26.

Manchester.—Electrical installation at Victoria Park Secondary School, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by July 25.

Northumberland. — Rewiring part of the electrical installation at Berwick C. Grammar School, Berwick-upon-Tweed, for C.C. Submit names to the County Architect, 30-32 Great North Road, Newcastle upon Tyne, by July 21.

FENCING

Durham.—Fencing of site, Chilton Proposed Modern School, for C.C. Applications to the County Architect, South Street, Durham, by July 20.

Lancashire.—Supply and erection of approx. 500 lin. yd. of wrought-iron railings at Heywood Heap Bridge County School, for C.C. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by July 18.

GAS AND WATER SUPPLY

Biddulph, Staffs.—Laying of approx. 655 lin. yd. of 4in. cast-iron water main in Newpool Road, Knypersley, for U.D.C. Documents from the office of the Surveyor and Water Engineer, Council Offices, Biddulph. Deposit £2 2s., cheques payable to U.D.C. Tenders by July 19.

***Birmingham.** — Reconstruction of Argyle Street foul water pumping station, for City Council. Deposit £2 2s. Tenders by Aug. 17.

Devonshire.—Construction of Meshaw Moor booster pump house, in brickwork and tiled roof, 18ft. 6in. x 13ft. internally, situated on the reservoir site, approx. seven miles south of South Molton, contract 71B, for North Devon Water Board. Documents from Rofe and Raffety, 9 Brewer's Green, Buckingham Gate, Westminster, London, S.W.1. Deposit £2 2s. cheque. Plans also seen at the office of the Engineer (North), North Devon Water Board, Grenville House, Boutport Street, Barnstaple. Tenders by July 29.

Downpatrick, Down. — Laying of 6.5 miles 4in. dia. and 6.3 miles 3in. dia. spun-iron pipes, Northern area, for R.D.C. Documents from the offices of the Rural District Council, Quoile Road, Downpatrick. Deposit £3 3s. Tenders by Aug. 8.

Downpatrick, Down.—Supply and installation of two small electrically driven pumping sets and ancillary equipment for water extensions, contract 9, for R.D.C. Documents from Munce and Kennedy, consulting engineers and architects, 133 University Street, Belfast, 7. Tenders by July 27.

Dundee, Angus. — Supply and delivery to Lintrathen Reservoir, by Kirriemuir, of all or any of the following items, for Water Department: (1) Three rotary self-cleaning screens, 7ft. 6in. dia. x 5ft. long, of 7.5 m.g.d. capacity each, complete with driving motors, washwater pumps, etc.; (2) six 33in. x 33in. sq. single-faced sluices, complete with headstocks; (3) six 4in. dia. flanged sluice valves; (4) three 4in. dia. flanged flat outlet valves. Applications to the Engineer and Manager, Dundee Corporation Water Department, 1 Shore Terrace, Dundee. Tenders by Aug. 1.

Forehoe and Henstead, Norfolk.—Hingham, Deopham, etc., water supply, for R.D.C., including the provision and laying of about 12 miles of 6in., 4in., and 3in. diameter water mains. Documents from the offices of Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham. Deposit £5 5s (cheques payable to R.D.C.). Tenders by Aug. 15.

Halstead, Essex. — Construction of a water-softening works, contract 6, for R.D.C., comprising (a) plant house, containing concrete precipitation tank, two rapid gravity filters, stores and office; (b) two dewatering tanks and small pumping station; (c) chalk sludge drying beds; (d) roads, pipework and other ancillary works. Contract to be completed in 15 months. Documents from John Taylor and Sons, consulting engineers, Artillery House, Artillery Row, Victoria Street, Westminster, S.W.1. Deposit £5 5s (cheques payable to R.D.C.). Plans also seen at the offices of the Rural District Council, Mount Hill, Halstead. Tenders by Aug. 11.

***Lancashire.**—Cartmel Valley water main, for Grange U.D.C. and North Lonsdale R.D.C. Deposit £2 2s. Tenders by Aug. 5.

***Lincolnshire.**—Mainlaying, Tetney scheme, for North East Lincolnshire Water Board. Deposit £2 2s. Tenders by Aug. 9.

***Lydney, Glos.** — Howesfield St. Briavels and Mork water main extension, for R.D.C. Deposit £5 5s. Tenders by Aug. 31.

Motherwell and Wishaw, Lanarks.—Laying of approximately 3¾ miles of 12in. and 15in. diameter concrete-lined spun-iron pipes, with flexible joints, from Kirk Road, Wishaw, to Greenhill service reservoir, Greenhill, for B.C. Documents from the office of the Water Engineer, Findlay House, 81 Hamilton Road, Motherwell. Tenders by Aug. 8.

Newry, Armagh. — Comprehensive water scheme, zone 6, Fathom Upper and Clontygora supply, for R.D.C., comprising the construction of stream intakes and slow sand filter works in Clontygora townland, together with the supply and laying of 4,655 lin. yd. of 3in. spun-iron class B/C pipes; 2,255 lin. yd. of 3in. asbestos-cement class B pipes; 560 lin. yd. of 2in. asbestos-cement class C pipes, with all necessary valves, hydrants and fittings. Documents from W. B. O'Donoghue, clerk of Council, Rural Council Offices, Daisy Hill, Newry. Deposit £15 15s. Tenders by Aug. 3.

Newry, Armagh.—Comprehensive water scheme extensions, zones 1 and 5, for R.D.C., comprising the laying of the following lengths of water mains: Zone 1: Crossmaglen to Crevekeeran—863 lin. yd. of 4in. spun-iron class B; 278 lin. yd. of 4in. asbestos-cement class B; 1,602 lin. yd. of 3in. spun-iron class C. Zone 5: Ballintemple (Meigh) to Clonlum—1,022 lin. yd. of 6in. spun-iron class B; 1,138 lin. yd. of 3in. spun-iron class C, together with necessary valves, hydrants and fittings. The extensions will be carried out under two contracts. Documents from W. B. O'Donoghue, clerk of Council, Rural Council Offices, Daisy Hill, Newry. Deposit £5 5s. Tenders by Aug. 3.

North Devon. — Construction of Meshaw Moor booster pumphouse, contract 71B in brickwork and tiled roof, 18ft. 6in. by 13ft. internally, situated on the reservoir site approximately seven miles south of South Molton, for North Devon Water Board. Documents from Rofe and Raffety, engineers, 9 Brewer's Green, Buckingham Gate, Westminster, London, S.W.1. Deposit £2 2s. (by cheque only). Drawings seen at office of the Engineers or at the office of the Engineer (North), North Devon Water Board, Grenville House, Boutport Street, Barnstaple. Tenders by July 29.

Northumberland. — Construction of two reinforced concrete service reservoirs, each 227,000 gallons capacity, near Hedgeley and Windy Law, in Alnwick rural district, contract 19, for the Coquet Water Board. Documents from S. G. Barrett, engineer and manager of the Board, P.O. Box 104, Pilgrim Street, Newcastle upon Tyne, 1. Deposit £5. Tenders by Aug. 3.

***Orkney.** — Reinforced concrete works for Kirbister pumping station, contract 24, for C.C. Deposit £3 3s. Tenders by Aug. 16.

Yeovil, Som.—Supplying and laying by mole ploughing equipment of approximately 970yd. of 1¼in. and 200yd. of 3in. normal gauge polythene water pipe at Castle Farm, North Street, Stoke-sub-Hamdon, for R.D.C. Documents from the office of M. Daggett, engineer, 20 Kingston, Yeovil. Tenders by Aug. 10.

HEATING AND VENTILATING

Cookstown, Tyrone.—L.p.h.w. heating, hot and cold water and fire service installations at Loughry Agricultural College, Cookstown, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Aug. 15.

East Riding. — Installation of engineering services to the new Conference Hall at the Institute of Agriculture, Bishop Burton, for C.C. Documents from County Architect, County Hall, Beverley. Tenders by July 21.

Hull, Yorks.—Low pressure hot water heating and domestic hot water supply installation, Rokeby Park County Primary School, for City Council. Documents from City Architect, Guildhall, Hull. Deposit £2 to City Treasurer. Tenders by July 20.

Kesteven.—Provision of central heating system at Grantham St. Anne's C. of E. School (Controlled), for C.C. Submit names to the County Architect, County Offices, Sleaford, Lincs., by July 18. Tenders by July 28.

Lancashire. — Installation of automatic stokers and new heating boilers at Huyton St. Aloysius County Secondary School, for C.C. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by July 18.

HOUSING SCHEMES

Beverley, Yorks. — Erection of houses and garages on the following sites, for B.C.: (a) Five pairs of semi-detached three-bedroom houses, together with attached garages, site works, drainage and services, at St. Giles Croft, Beverley; (b) four pairs of semi-detached three-bedroom houses, eight pairs of semi-detached two-bedroom houses, 16 terrace-type three-bedroom houses, and 12 terrace-type two-bedroom houses, together with 10 garages, site works, drainage and services, at Swinemoor estate, Beverley. Contractors may tender for one or both sites. Written applications to Town Clerk, Municipal Offices, Beverley, by July 20. Deposit £3 3s. Tenders by Aug. 9.

***Birmingham.**—Eight dwellings at Glebe Farm Road, Stechford, contract 704, for City Council. Applications by July 19. Deposit £2 2s. Tenders by Aug. 19.

Blackwell, Derbys.—Twenty-four houses at Thickley Bank, Shirebrook, for R.D.C. Documents from the Engineer and Surveyor, 100 Chesterfield Road South, Mansfield, Notts. Deposit £2 2s. Tenders by Aug. 10.

***Bromley, Kent.** — Twenty-seven flats at Crown Lane, for B.C. Apply by July 23.

Burton upon Trent, Staffs.—Two four-storey blocks of 40 flats, six garages and laundry of traditional construction on the Calais Road site, for B.C. Applications to the Borough Architect, Town Hall, Burton upon Trent, by July 20. Deposit £2 2s. Tenders by Sept. 14.

Eccles, Lancs.—Ninety flats in three-storey blocks on four sites, for B.C. Documents from the office of F. Bradley, architect, Penny Bank Chambers, 4 Wood Street, Bolton. Deposit £3 3s. Tenders by July 21.

***Ennerdale, Cumb.** — Two hundred and eighty-five houses, etc., Orgill, Egremont, for R.D.C. Deposit £5 5s. Tenders by Aug. 17.

Gravesend, Kent.—Forty-two semi-detached houses on Singlewell estate, for B.C. Documents from the Borough Engineer and Surveyor, 6 Woodville Terrace, Gravesend. Tenders by Aug. 17.

Holland.—Two detached houses and garages for police inspectors on the Grange Drive estate, Halmergate, Spalding, for C.C. Documents from the County Architect, County Hall, Boston, Lincs. Tenders by Aug. 22.

Kesteven. — One pair of police houses, Queen's Walk, Roman Bank, Stamford, for C.C. Submit names to the County Architect, County Offices, Sleaford, Lincs., by July 19. Tenders by Aug. 16.

Mansfield Woodhouse, Notts.—Six bungalows on the Pump Hollow housing estate, for U.D.C. Documents from W. W. F. Shuker, engineer and surveyor, Council Offices, Manor House, Mansfield Woodhouse. Deposit £2 2s. (cheques crossed and payable to Council). Tenders by July 30.

Neath, Glam.—One hundred and four traditional type dwellings at Caewern site, for R.D.C. Scheme has been divided into three separate contracts: (a) 22 houses and six flats; (b) 22 houses and 24 flats; (c) 14 houses and 16 flats. Contractors may tender for one or more contracts, but no tenders will be considered unless the tenderer complies with the condition of tender regarding time required for completion of work. Documents from J. T. Jones, engineer and surveyor, Orchard Chambers, Orchard Street, Neath. Deposit £3 3s. Tenders by July 26.

Newcastle upon Tyne.—Six houses in Burwell Avenue on the Slatyford Lane estate, section F, for City Council. Applications, in writing, to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. Tenders by July 21.

Northern Ireland.—Construction of 13 lock-up garages, together with ancillary works, at Dromore (Maypole Park), for Northern Ireland Housing Trust. Documents from 12 Hope Street, Belfast, 12. Tenders by July 29.

***Salisbury, Wilts.**—Essex Square redevelopment, section 1, for City Council. Tenders by Aug. 5.

Totnes, Devon.—Demolition of seven cottages and various out-buildings within a clearance area and the erection of a block of six flats together with incidental site works, at Higher Street, Dittisham, for R.D.C. Documents from the Council's Engineer and Surveyor, Council Offices, Higher Plymouth Road, Totnes. Deposit £2 2s. Tenders by Aug. 18.

Walsingham, Norfolk.—Following works in the parish of Fakenham, for R.D.C.: Jubilee Avenue estate — erection of block of four flats; Lee-Warner Avenue estate—erection of 26 houses, shop and flat. Documents from Dewing and Herriott, Council's architects, 4 Princes Street, Norwich, Norfolk. Deposit £2 2s. for each site. Tenders may be submitted for either or both of the sites, and/or separate groups of houses on the Lee-Warner Avenue estate. Tenders by Aug. 2.

Wisbech, I. of E. — Six bungalows off Mount Pleasant Road, for B.C. Documents from the Borough Engineer, Church Street, Wisbech. Deposit £1 1s. Tenders by Aug. 6.

MATERIALS AND SUPPLIES

Luton, Beds. — Supply of ironmongery, 40 houses, Lewsey Farm estate, for B.C. Documents from the Borough Architect, Town Hall, Luton. Tenders by Aug. 15.

Muckamore, Antrim.—Supply of specialist precast concrete work for the Pig Progeny Testing Station at Greenmount Agricultural College, for the Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Aug. 8.

Reading, Berks.—Erection of a caretaker's house at Southlands Secondary School for Girls, Northumberland Avenue, for B.C. Documents from Howard V. Lobb and Partners, architects, 20 Gower Street, London, W.C.1. Tenders by July 28.

Settle, Yorks.—Following works, for R.D.C.: (1) One block of four bungalows (1 and 2 Br. type) at Hellifield; (2) one block of four bungalows at Ingleton (1 and 2 Br. type). Documents from the Council's Engineer and Surveyor, Town Hall, Settle. Deposit £2 2s. Plans seen either at the office of the Council's Engineer and Surveyor or at the office of J. Norman Spencer, architect, Dean House, Piccadilly, Bradford. Tenders by July 22.

Wem, Salop.—Erection of four houses and two bungalows and improvements to two houses at Pickhill, Burlton, for R.D.C. Documents from Hind and Brown, architects, District Bank Chambers, Hanley, Stoke-on-Trent. Deposit £2 2s. Plans seen at Architect's office or Council Offices, Wem. Tenders by July 30.

Whitby, Yorks.—Supply of approx. 65 tiled fireplaces complete with butterfly dampers and damper boxes, fireclay firebacks with 16in. cut-outs chromium colour vitreous enamelled frets and cast-iron grates, contract 227(a), for U.D.C. A full specification should be furnished and the price must include 2½ per cent. cash discount to be allowed to the fixing contractors. Delivery to site within the urban district. Tenders in plain sealed envelopes endorsed "Fireplaces" to A. C. Ross, clerk of the Council, The Council Offices, St. Hilda's Terrace, Whitby, by July 23.

***Wrexham, Denbighs.**—Dwellings and garages, for B.C. Deposit £2 2s. Tenders by July 25.

PLANT AND MECHANICAL TRANSPORT

Ballyclare, Antrim.—Supply of a new diesel Land-Rover, with long chassis and truck cab, for the Mid-Antrim Waterworks Joint Board. Specification from the Board's Office, Town Hall, Ballyclare. An allowance must be given for a 1956 Land-Rover, which has recently been approved for p.s.v. and is in excellent order. This vehicle can be inspected at any time by arrangement. Tenders by July 29.

***Brentwood, Essex.**—Supply of one electrically operated movable box-type paper-baling press, for U.D.C. Tenders by July 26.

Congleton, Ches.—Provision of a 30 cwt. trailer suitable for towing by a Fordson Dexta tractor, for B.C. The trailer to be complete with overrider brakes, lighting and trailer plates. Further information from the office of the Borough Engineer and Surveyor, Market Place, Congleton. Tenders by July 22.

Corby, Northants.—Supply of a 15cwt. Bedford van (102in. wheelbase model), painted and lettered to the Council's requirements, for U.D.C. The tender must include a part-exchange allowance for a 1952 Bedford van and a Lacre sweeper. The sweeper may be inspected at the Council's Central Depot, Cottingham Road, Corby, and the Bedford van will be available for inspection at 8 Stocks Lane, Corby, from 9 a.m. to 10 a.m., on any weekday. Documents from G. B. Blackall, clerk of the Council, Council Offices, Corby. Tenders by July 25.

***Dorking and Horley, Surrey.**—Supply of tipping lorry, for R.D.C. Tenders by July 18.

Godstone, Surrey.—Supply of a 3½-ton tipping lorry, for R.D.C. Details of the type of vehicle from the Engineer and Surveyor, Council Offices, Oxted. Tenders by July 20.

Hemel Hempstead, Herts.—Following, for R.D.C.: Refuse collecting vehicle of the fore-and-aft type—(a) 16 cu. yd. nominal capacity; (b) 26 cu. yd. nominal capacity, or thereabouts, with or without auxiliary packing devices. Documents from R. H. T. Chappell, senior public health inspector, The Bury, Hemel Hempstead. Tenders by Aug. 22.

***Hoylake, Ches.**—Supply of one half-ton and one agricultural tractor, for U.D.C. Tenders by July 30.

Manchester.—Supply of the following, for City Council: (a) One International TD9; (b) five Vespa 125 c.c. standard scooters with sidecars; (c) three Ford Thames 3-ton diesel-engined tower wagons; (d) two three-point Road Rollers (unballasted weight 30 cwt.); (e) two 800-gallon combined cesspool/gully emptiers mounted on Karrier Gamecock chassis; (f) one seven-ton 160in. wheelbase Ford Thames Trader tipping wagon; (g) three Commer 15 cwt. vans; (h) one Commer Cob van. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by July 19.

Mountain Ash, Glam.—Supply to Mountain Ash of the following vehicles, for U.D.C.: (1) One Commer Superpoise open motor lorry, 3/4-ton embodying a six-cylinder Perkins P.6 diesel engine, four-speed synchromesh gearbox, fully floating deep section frame with short wheel base, servo-assisted hydraulic brakes, 7.00 x 20, 10-ply tyres (twin rear) and spare, vertical type hydraulic tipping mechanism and steel-lined timber body, size overall 9ft. 2in. by 7ft. 1in., with drop sides 1ft. 9in. high and tail board; (2) one Karrier Gamecock 10 cu. yd. all-steel refuse collector, type 3/4 tons low loading chassis on 27in. x 6in. 10-ply heavy-duty pneumatic tyres with twin rear and spare, with three-seater cab and embodying a Rootes high speed direct-injection two-stroke diesel engine, four-speed syncromesh gearbox, servo-assisted hydraulic brakes and fitted with semi-circular steel sliding dust covers, double opening rear doors, power hydraulic end tipping gear together with rear step. The tender for the vehicles must include for painting, lettering to the Council's requirements and for number plates. Tenders for these vehicles must also include a part exchange allowance for one Karrier Bantam open drop-side Tipper Lorry, registration no. KTG 738, purchased new in January, 1951, and one Karrier C.K.3 10 cu. yd. refuse collector registration No. KNY 591, purchased new in August, 1951: These lorries may be inspected by arrangement with the Council's Engineer and Surveyor. Tenders, stating delivery period in plain sealed envelopes, endorsed "Tenders for Lorries," to R. Gwynne Richards, clerk of the Council, Town Hall, Mountain Ash, by noon, July 25.

Manchester.—Supply of four 7-ton moving-floor grit (salt and sand) spreaders driven by a suitable diesel engine, for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by July 19.

West Riding.—Supply of following, for C.C.: Gully emptiers (two); industrial tractors with shovel (five), vibrating rollers (five); milling machine (one); 5/3½ cu. ft. concrete mixers (eight). Documents from the Chief Mechanical Engineer, West Riding County Council, Highways and Bridges Department, Central Repair Depot, Lofthouse Park, near Wakefield. Requests for tender documents must indicate the items of plant for which the contractor is desirous of submitting tenders. Tenders by July 20.

PLAYING FIELDS, PARKS, ETC.

***Gateshead, Dur.**—Playing field at Redheugh Colliery Yard, for B.C. Deposit £2. Tenders by July 20.

Guildford, Surrey.—Grading, preparation and seeding of 1.7 acres of house forecourts, at Park Barn housing site, stage III, for B.C. Documents from Borough Engineer and Surveyor, Municipal Offices, High Street, Guildford. Tenders by July 20.

Isle of Wight.—Preparation of playing fields for the Newport Priory Secondary Girls' School, for C.C. Applications to the County Architect, County Hall, Newport, I. of W., by July 18. Deposit £2 2s., payable to Council. Tenders by Aug. 3.

***Oxford.**—Landscaping, etc., at Blackbird Leys estate, for City Council. Apply by July 25.

RIVER AND FLOOD PREVENTION WORKS

Huntingdonshire. — Improvement of 140 chains of dykes by dragline excavator at Newtons Tick Fen Farm, Warboys, for C.C. Documents from the County Land Agent, Walden House, Huntingdon. Tenders by Aug. 2.

ROADS, BRIDGES AND SITE WORKS

Atcham, Salop.—Access road to Hanwood vehicle depot, Hanwood, for R.D.C., comprising approx. 1,724 sq. yd. of carriageway, together with footpaths and surface water drainage. Documents from J. R. Sockett, engineer and surveyor, 24 St. John's Hill, Shrewsbury. Deposit £1. Tenders by Aug. 5.

Antrim.—Resurfacing with asphalt, together with incidental works, on the following roads, for C.C.: Proposal 990—Antrim-Ballymena Road, Route T.7, at Cromkill, approximate area 12,480 sq. yd.; proposal 783—Lisburn Rural District, Locksley Park, Finaghy, approximate area 3,840 sq. yd. Documents from County Surveyor's Office, County Courthouse, Belfast. Deposit £2 2s. Tenders by July 22.

Bangor, Caerns.—Making-up of Pen y Ffridd Road, for City Council, including the following main items: Approx. 130 sq. yd. concrete carriageway, 40 lin. yd. concrete kerb, 75 sq. yd. tarmacadam and 500 sq. yd. cold asphalt footways, and repairs to existing work. Docu-

ments from the City Surveyor, Town Hall, Bangor. Deposit £3 3s. Tenders by July 25.

***Bedfordshire.**—Making-up of four roads, for C.C. Deposit £2. Tenders by Aug. 5.

Belfast.—Demolition and replacement in reinforced concrete of the existing bridge carrying Airport Road across Connswater, for Harbour Commissioners. Documents from the Harbour Engineer, Harbour Office, Belfast. Tenders by July 29.

***Berkshire.**—Making-up Silver Fox Crescent, Woodley, for C.C. Deposit £2. Tenders by July 29.

Birmingham.—Following, for City Council: (a) The making-up of carriageway and footways at Frederick Road, Selly Oak; (b) Reconstruction of Formans Road, from Stratford Road to the River Cole. Documents from the office of Sir Herbert J. Manzoni, city engineer and surveyor, Civic Centre, Birmingham, 1. Deposit £2 2s. each. Tenders by July 20.

Breconshire.—Resurfacing works at the following schools, for C.C.: (1) Gwernyfed Secondary Modern School; (2) Llanwrtyd Wells County Primary School. Applications to the County Architect, Rhyd Offices, Brecon, by July 23.

Bredbury and Romiley, Ches. — Making-up, paving and surfacing of Heys Lane, Romiley, approximately 75yd. in length, for U.D.C. Documents from T. P. Hodkinson, engineer and surveyor, Council Offices, George Lane, Bredbury. Deposit £2 2s. (cheque payable to U.D.C.). Tenders by Aug. 15.

Brighton, Sussex.—Heating and planing approx. 34,150 sq. yd. of carriageway at eight different sites, for B.C. Generally, the existing surface consists of one or more layers of tar spray and chippings. Documents from D. J. Howe, borough surveyor, 26-30 Kings Road, Brighton. Tenders by July 23.

Brighton, Sussex. — Road surfacing programme, 1960, for B.C., comprising the supplying and laying of the following materials on various roads and streets in the borough: (a) 3,300 sq. yd. of fine cold asphalt, with or without precoated granite chippings rolled in; (b) 7,450 sq. yd. of hot-rolled asphalt, with precoated granite chippings rolled in; (c) 89,870 sq. yd. of bitumen macadam, which includes 7,150 sq. yd. of dense bitumen macadam. Documents from D. J. Howe, borough surveyor, 26-30 King's Road, Brighton. Tenders by July 20.

***Bury, Lancs.** — Reconstruction of tennis courts at Whitehead Recreation Ground, for B.C. Tenders by Aug. 2.

Campbeltown, Argyll. — Kintyre and Cowal reinforcement, for North of Scotland Hydro-Electric Board: Civil engineering work, consisting of concrete foundations and retaining walls, together with chain link fencing, to accommodate two transformers at Campbeltown Generating Station. Documents from Strain and Robertson, 5 Park Circus, Glasgow, C.3. Deposit £2 2s.

***Cambridgeshire.** — Supplying and laying gravel and granite asphalt on the St. Neots-Cambridge trunk road, A.45, contract 6013, for C.C. Tenders by July 30.

***Caterham and Warlingham, Surrey.**—Private street works at Crewes Avenue, Warlingham, for U.D.C. Tenders by Sept. 5.

Chatham, Kent.—Construction of mass concrete retaining walls, brick boundary walls, wrought-iron fencing, site clearance and other accommodation works at New Road Avenue, Chatham, and New Road, Rochester, for B.C. Documents from J. A. T. Richards, borough engineer and surveyor, Town Hall, Chatham. Deposit £2 2s. Tenders by July 23.

Cheadle and Gatley, Ches. — Making-up of each of the following streets, for U.D.C.: Beechfield Road, Cheadle Hulme; Firs Road, Gatley; Firs Grove, Gatley. Documents from Duncan S. Graham, engineer and surveyor, Town Hall, Abney, Cheadle. Deposit £2 2s. Tenders by July 25.

Chesterfield, Derbys. — Construction of the following at Westwell Farm housing estate, Mosborough, for R.D.C.: Approx. 9,900 sq. yd. of tarmacadam carriageway; 1,760 lin. yd. of 6in. dia. sewer; 951 lin. yd. of 9in.-18in. dia. sewer; and 48 manholes, and incidental works. Documents from J. B. Wikeley, engineer and surveyor, Rural Council House, Saltergate, Chesterfield. Deposit £2 2s. cheque. Tenders by July 20.

Consett, Dur. — Private street works at Alston Road and Baxton Road, Bridgehill, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Medomsley Road, Consett. Tenders by July 26.

***Derbyshire.**—Footbridge over River Rother, Works Road, Staveley, for C.C. Deposit £2. Tenders by Aug. 9.

***Dorking, Surrey.** — Repaving of slab-paved footway, for U.D.C. Apply by noon, July 19.

Dundee, Angus.—Spraying and chipping of about 9,600 sq. yd. of the harbour roadways, for Dundee Harbour Trust. Documents from General Manager and Engineer, Dundee Harbour Trust, Harbour Chambers, Dock Street, Dundee. Tenders by July 26.

East Riding. — Liverpool-Leeds-Hull trunk road, A.63, Welton to North Ferriby By-pass: Conversion of approx. 1.6 miles of the existing trunk road to dual carriageways, for C.C. The works consist of the construction of approx. 800yd. of dual carriageway and 2,000yd. of single carriageway, including earthworks, drainage and kerbing. Documents from the County Surveyor, County Hall, Beverley. Deposit £5, cheques payable to C.C. Plans seen at the Trunk Roads Office of the County Surveyor, Westminster Bank Chambers, Lairgate, Beverley. Tenders by Aug. 8.

***Essex.** — Improvement of the London-Norwich trunk road, A.11, at junction with the A.130, for C.C. Deposit £3. Tenders by Aug. 5.

***Essex.**—Kerbing, paving and drainage works, etc., for C.C. Apply by July 22.

***Failsworth, Lancs.** — Making-up of Slater Street, for U.D.C. Deposit £2 2s. Tenders by Aug. 13.

Fifeshire.—Dennyloanhead-Kincardine-Kirkcaldy-St. Andrews trunk road (A.985)—construction of a by-pass at Torryburn, for C.C., four miles west of Dunfermline, including construction of 4½ miles of road and five minor bridges principally of reinforced concrete. The contract includes earthworks, drainage, dry lean concrete base, bitumen macadam base course, hot asphalt wearing surface, fencing, walling, etc. Documents from the County Surveyor, County Offices, Belfield, Cupar, Fifes. Deposit £5 5s. Tenders by Aug. 15.

Glamorgan. — Making-up of the following private streets, for C.C.:—(1) Ashdale Road, Penrhiwfer, the principal works comprising storm water sewer, 6in. diameter, 45 lin. yd. carriageway foundation and surfacing 810 sq. yd.; footpath foundation and paving, 540 sq. yd.; kerbing, 400 lin. yd., and incidental works. (2) Glossop Terrace, Pencoed, the principle works comprising storm water sewer, 6in. diameter, 47 lin. yd.; carriageway foundation and surfacing, 415 sq. yd.; footpath foundation and surfacing 443 sq. yd.; kerbing, 175 lin. yd., and incidental works. Documents from the County Surveyor, County Hall, Cardiff. Deposit £3 each. Tenders by Aug. 4.

Halesowen, Worcs.—Resurfacing of the carriageway at Spring Hill, Hagley Road, Halesowen, which includes approximately 4,082 sq. yd. of 1½ hot-rolled asphalt and other incidental works, for B.C. Documents from the Borough Engineer and Surveyor, Council House, Halesowen. Deposit £2 2s. Tenders by July 23.

Halstead, Essex. — Construction of the private street works, etc., at Balls Chase, for U.D.C., including site preparation, laying of a surface water sewer, and a 16ft. carriageway and footpath 6ft. wide one side only. The road is approximately 500ft. in length. Documents from Mitchell, Weston and Partners, chartered architects, 38 Churchgate Street, Bury St. Edmunds, Suffolk. Deposit £2 2s. Tenders by July 21.

Hazel Grove and Bramhall, Ches.—Making-up and completion of Seal Road (part of) and Colwyn Road (part of), Bramhall, for U.D.C. Documents from J. Fleming Andrew, engineer and surveyor, the Council House, Hazel Grove. Deposit £2 2s. Tenders by Aug. 2.

Hertfordshire.—Diversion of Hunters Lane, Leavesden, for C.C. The works, which consist of the construction of ¾ mile of new carriageway, comprise site clearance; 6,000 cu. yd. excavation; 1,000 lin. yd. footway edging; 3,000 lin. yd. kerbing; 1,750 tons asphalt; 2,500 cu. yd. lean mix concrete, and 1,800 lin. yd. of concrete post and chain link fencing Documents from the County Surveyor, County Hall, Hertford. Tenders by Aug. 3.

***Heywood, Lancs.** — Asphalt surfacing, Bamford Road (part), for B.C. Deposit £2 2s. Tenders by Aug. 6.

Huddersfield, Yorks. — First-stage road and sewer works at Bank End Lane and Templar Drive, Almondbury, for B.C., comprising approximately 535 lin. yd. of 9in. and 12in. diameter salt-glazed ware pipe sewers, 1,100 lin. yd. of kerb and channel foundations, 2,750 sq. yd. of pitched carriageway foundations, together with concrete manholes, gullies and ancillary works. Documents from A. L. Percy, borough engineer and surveyor, High Street Buildings, Huddersfield. Deposit £2 2s. Tenders by July 25.

Ilford, Essex.—Resurfacing of footpaths, comprising approximately 5,000 sq. yd. of cold asphalt, together with incidental works, in parks, for B.C. Applications, in writing, to the Borough Engineer and Surveyor, Town Hall, Ilford. Deposit £2 2s. Tenders by July 26.

Irvine, Ayrs.—Site clearance, construction of 80yd. of 9in. ferro-concrete sewer and 60yd. of 6in. ferro-concrete sewer with ancillary works and first stage road works for Burnside housing site, for 49 houses, for B.C. Documents from R. W. Morrison, burgh surveyor, Heathfield, Kilwinning Road, Irvine, who will arrange to point out the site to intending offerers. Tenders by July 25.

***Kent.**—Private street works, for C.C. Deposit £2. Tenders by July 22.

***Kirkby-in-Ashfield, Notts.** — Roads, footpaths and sewers at Maple Crescent and Box Crescent housing estate, off Sutton Middle Lane, for U.D.C. Deposit £2 2s. Tenders by Aug. 2.

Leatherhead, Surrey.—Following, for U.D.C.: Highway improvement works in The Street, Ashtead, including 470 lin. yd. kerbing, 100 sq. yd. lean mix concrete, bituminous macadam surfacing carriageway 2,800 sq. yd., footpath 890 sq. yd. Documents from the Engineer and Surveyor, Red House, Leatherhead. Tenders by July 20.

Leighton Buzzard, Beds.—Following works, for U.D.C.: (1) Heath Road (A.418), east side Council's allotments to 50yd. North Greenhill—heat and plane-off existing tarmacadam carriageway and resurface (approximately 2,700 super. yd.); (2) Stanbridge Road (class 3), Stanbridg Road Terrace to Lywood Road south side—resurfacing footpath (approximately 1,800 super. yd.); (3) Billington Road (B.486), between Grovebury Road and Stonhill, west side—resurfacing footpath (approximately 1,100 sq. yd.); (4) Plantation Road, between Blackpot Farm and Firs footpath, west side—provision of 210 lin. yd. kerb and channel and resurface footpath (approximately 402 super. yd.). Documents from the Engineer and Surveyor, Council Offices, Leighton Buzzard. Deposit £2 2s. Tenders by July 19.

Lydd, Kent. — Works of levelling Lydd Churchyard extension (otherwise known as Lydd Cemetery), Mill Road, for B.C. Documents from the Borough Surveyor, Guild Hall, High Street, Lydd, Romney Marsh, Kent. Tenders by July 25.

Maidstone, Kent.—Roads and sewers contract, section 3, Park Wood housing estate, for B.C., comprising the construction of new hardcore and tarmacadam carriageways, the provision and laying of foul sewers (mainly 9in.) and surface water sewers (9in. to 21in.). Firms tendering will be required to submit evidence that they have recently carried out works of a similar type and magnitude. Documents from the Borough Engineer, Palace Avenue, Maidstone. Tenders by July 19.

Mere and Tisbury, Wilts.—Main site works contract at The Avenue, Tisbury, for R.D.C., comprising approx. 1,000 sq. yd. of tarmacadam roadway, main footpaths, and storm water drains. Documents from Bothams and Brown, architects, 32 Chipper Lane, Salisbury. Deposit £2 2s. Plans seen at the Council Offices, Mere. Tenders by July 30.

Mitcham, Surrey.—New entrance roadway, bowling green, footpaths, fencing, gates and water supply at The Canons, Madeira Road, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Mitcham. Tenders by July 30.

***Neston, Ches.**—Construction of car park, for U.D.C. Tenders by July 27.

Newtownards, Down.—Reconstruction and widening of carriageways and footways at North Road, Upper North Street and Victoria Avenue, Newtownards, together with the provision of retaining walls, services and ancillary works, for B.C. Contract provides for (approximately) (1) excavation of 3,500 cu. yd. of earth embankments; (2) construction of 5,000 sq. yd. of hardcore and bituminous macadam carriageways; 2,000 sq. yd. of concrete flagged footways; 180 lin. yd. of mass concrete, stone faced retaining walls, and (3) laying of water and gas mains, together with other ancillary works. Documents from the Borough Surveyor, 26 Frances Street, Newtownards. Deposit £3. Tenders by Aug. 2.

***Pontefract, Yorks.** — Surfacing part of Spittal Hardick Lane, for B.C. Tenders by July 26.

Portadown, Armagh.—Supplying and laying a single hot-rolled asphalt wearing course, 1¼in. thick, for B.C. The works are contained in six streets, and comprise an approx. total area of 23,000 sq. yd. Documents from the Borough Surveyor, Tavanagh House, Thomas Street, Portadown. Deposit £2 2s. Tenders by Aug. 3.

Potters Bar, Middx.—Widening a section of The Walk for a distance of 220 lin. yd., for U.D.C. The work consists of tree felling, reconstruction of surface water drainage, construction of a footway and verges, and reconstruction of an area of reinforced concrete carriageway; also fencing and incidental works. Documents from the office of the Engineer and Surveyor, Wyllyotts Manor, Darkes Lane, Potters Bar. Deposit £2 2s. Tenders by Aug. 8.

***Preston, Lancs.**—Resurfacing of Blackpool Road, for B.C. Deposit £2 2s. Tenders by Aug. 8.

***Prestwich, Lancs.**—Footway reconstruction on trunk, classified and district roads, for B.C. Tenders by July 23.

Radcliffe, Lancs.—Reconstruction of footways in various streets, using precast concret flags and kerbs, for B.C. Documents from the Borough Engineer, Town Hall, Radcliffe. Tenders by Aug. 1.

Radcliffe, Lancs. — Reconstruction of footpaths and carriageway in James Street, for B.C. Documents from the Borough Engineer, Town Hall, Redcliffe. Tenders by Aug. 1.

Settle, Yorks.—Excavation, water main, roadworks and surface water drainage and contingent works at Burnmoor housing site, Ingleton, second development, for R.D.C. Documents from the Engineer and Surveyor, Town Hall, Settle. Deposit £2 2s. Tenders by July 22.

Staffordshire. — Making-up of Brookfield Avenue, Endon (length 213yd.), for C.C. The work includes excavation, providing two layers of 2in. broken stone to 6in. depth laid on 3in. ashes, and surfacing of 3in. bituminous macadam, precast concrete kerbs and channels, footpaths of bituminous macadam and cold asphalt, and the provision of stoneware surface water drains with brick manholes. Documents from T. H. Evans, clerk of the County Council, County Buildings, Stafford. Deposit £5. Tenders by July 20.

Staffordshire. — Construction of concrete block, brickwork and concrete walls between Tean River Bridge and Oakhill, trunk road A.50, at Upper Tean, for C.C. Documents from T. H. Evans, clerk of the County Council, County Buildings, Stafford. Deposit £5. Tenders by July 22.

Taunton, Som.—Hot-rolled asphalt resurfacing on trunk road A.358, approx. 8,000 sq. yd., and ancillary works, for B.C. Documents from Borough Engineer, St. Paul's House, Taunton. Tenders by July 25.

***Uttoxeter, Staffs.**—Surfacing of Park Street, Grange Road and Redfern Road, for U.D.C. Tenders by July 29.

***Warwickshire.** — Construction of hard shoulders, Meriden By-pass, for C.C. Deposit £2 2s. Tenders by Aug. 5.

West Riding.—Construction and making-up of a total length of 133yd. of the private street known as Sikes Road, North Anston, in the parish of North and South Anston, in the rural district of Kiveton Park, for C.C. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Deposit £1 (cheques crossed and payable to the West Riding Treasurer). Tenders by Aug. 3.

West Riding.—Construction and making-up of a total length of 355yd. of the private streets known as Scarsdale Street and Clarence Street in the parish of Dinnington St. John's in the rural district of Kiverton Park, for C.C. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Deposit £1 (cheques, etc., crossed and payable to the West Riding Treasurer). Tenders by Aug. 3.

Wiltshire. — Realignment and widening of five separate curves on the road leading from Bulford Military Camp to the Tidworth Military Camp, for C.C. The work comprises the excavation for, and construction of, new carriageway approx. 1,700 lin. yd., together with kerbing, surface water drainage and fencing in parts. Documents from County Surveyor, County Hall, Trowbridge. Deposit £2. Tenders by July 25.

***Wirrall, Ches.**—Car park at Irby playing field, for U.D.C. Tenders by July 30.

York.—Making-up of Sherwood Grove, for City Council. The work involves the construction of a 6in. concrete carriageway, approx. 990 sq. yd., surface water drainage, kerb, concrete flagging, verges and other incidental works. Documents from Chas. J. Minter, city engineer, surveyor and planning officer, 7 St. Leonard's Place, York. Deposit £2, cheques payable to Corporation. Tenders by July 22.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

***Alderley Edge, Ches.** — Reconstruction of sewers, for U.D.C. Deposit £5 5s. cheque. Tenders by Aug. 22.

Aylesbury, Bucks.—Drainage works, connection to sewers, and in some cases plumbing works, in respect of the Council's housing estates at Oakley, as follows, for R.D.C.: (Contract 1) 1-8 Bernwode Cottages; (2) 1-5 Heathfield Cottages; (3) 1-12 Elmwood Cottages; (4) 1-10 Little London; (5) Heathfield Rise. Builders may tender for any or all of the above projects. Documents from Raymond C. White, of Raymond White and Ridley, architects, 4 Temple Square, Aylesbury. Tenders by July 19.

Bridge-Blean, Kent. — Supply of duplicate electrically driven vertical spindle direct coupled centrifugal sewage pumping plant to discharge approx. 75 gallons/minute against a total head of approx. 105ft., together with ancillary equipment, at Tyler Hill, for R.D.C. Documents from P. J. Thackray, engineer and surveyor, 41 Old Dover Road, Canterbury. Tenders by Aug. 24.

***Carlton, Notts.** — Sewering of Darley Avenue, for U.D.C. Deposit £2. Tenders by July 27.

Chigwell, Essex. — Surface water sewer at Pyrles Lane, Loughton, for U.D.C., comprising 156 lin. yd. of 24in. dia. concrete tubes, concrete surrounds and manholes, and 160 lin. yd. 4in. dia. land drains. Documents from the Engineer and Surveyor, Council Offices, Loughton. Deposit £2 2s. Tenders by July 29.

Clutton, Som.—Provision and laying of approx. 200yd. of 6in. dia. sewer and 200yd. of 4in. dia. sewer at Hobb's Wall and Timsbury Road, respectively, together with manholes and incidental works, for R.D.C. Documents from Public Health Inspector and Surveyor, Council Offices, Temple Cloud, near Bristol. Deposit £1 1s. Tenders by July 27.

Depwade, Norfolk.—Supply and laying of some 1,200yd. of 6in. diameter glazed stoneware sewers and drains and 240yd. of 4in. diameter asbestos-cement pumping main; construction of a small sewage disposal works, brick underground pumping station, fencing and allied works at Alburgh, for R.D.C. Documents from the Engineer and Surveyor, Council Depot, Long Stratton, Norwich. Deposit £3. Tenders by July 25.

Deudraeth, Merioneths. — Harlech sewerage extensions, contract 1, for R.D.C., including laying approx. 3,600yd. of mainly concrete sewers, 6in. dia., the construction of manholes, and incidental work. Applications, in writing, to Richards and Dumbleton, consulting engineers, Cornwall Buildings, 45 Newhall Street, Birmingham, 3, and Greenways, Portmadoc, Caerns. Deposit £3, payable to R.D.C. Plans also seen at the office of L. Ellis, clerk of the Council, Council Offices, Penrhyndeudraeth, Merioneth. Tenders by Aug. 20.

Gloucestershire. — Surface water drainage at Whittucks Road, Hanham, near Bristol, for C.C., including the construction of approximately 1,500yd. of surface water sewer (15in. to 33in. diameter pipes), 18 manholes and ancillary works. Documents from the County Surveyor, Quay Street, Gloucester. Tenders by Aug. 10.

***Gloucester.**—Upton St. Leonards sewerage and sewage disposal scheme, for R.D.C. Deposit £5 5s. Tenders by Aug. 22.

Godston, Surrey. — Land drainage work, as follows, for R.D.C.: Mill Lane, Playing Field, Hurst Green, Oxted—laying or approximately 1,600yd. of 4in. and 225yd. of 6in. land drainage, and mole drainage of approximately 14½ acres; Featherstone, Blindley Heath — laying of approximately 375yd. of 4in. land drains and mole drainage of four acres. Documents from the Engineer and Surveyor, Council Offices, Oxted. Tenders by July 20.

***Haverfordwest, Pembs.** — Simpson Cross sewerage scheme, for R.D.C. Tenders by Sept. 9.

Horsham, Sussex.—Construction of approx. 210 lin. yd. of 18in. dia. s.w. sewer at Rusper Road, for U.D.C. Applications to the Surveyor, Council Offices, Horsham Park, Horsham. Tenders by July 18.

***Isle of Wight.** — Construction of storage sewer at Bembridge, for R.D.C. Deposit £3 3s. Tenders by Aug. 8.

Leyburn, Yorks.—Extension of sewer at St. Mary's Mount, for R.D.C., including providing and laying 343 lin. yd. of 6in. glazeware pipes, together with the construction of manholes and all contingent works. Documents from the office of W. Sutton, surveyor, Thornborough Hall, Leyburn. Tenders by July 29.

Newcastle-under-Lyme, Staffs.—Betley sewerage and sewage disposal, for R.D.C. Works comprising construction of about 100 lin. yd. of spun-iron and 4,000 lin. yd. glazed stoneware pipe sewers, 12in. and 6in. in diameter, about 200 lin.yd. of spun-iron rising main, 4in. in diameter, an ejector station, and sewage disposal works, comprising screening and detritus tanks, sedimentation tanks, storm water tanks, dosing chamber, bacteria beds, humus tanks, pump house and pump well, sludge lagoons and incidental works. Documents from F. W. Ramm, clerk of the Council, Sidmouth Avenue, The Brampton, Newcastle-under-Lyme. Deposit £5 5s. Tenders by Aug. 12.

***Nottingham.**—Construction of culvert for Bottle Brook improvement scheme, for the Trent River Board. Applications by first post, July 20. Deposit £5.

Penzance, Corn. — Diversion of the stream, excavations to stream bed, building-up of side walls with blockwork and concreting bottom, diversion of existing foul water sewer to new lines and levels, including all manholes at Newlyn Coombe, for B.C. The length of the diversion is approximately 220yd. Submit names to the Borough Engineer and Surveyor, Municipal Buildings, Penzance, by July 21. Deposit £2 2s.

***Ploughley, Oxon.** — Middleton Stoney sewerage and sewage disposal scheme, for R.D.C. Deposit £2. Tenders by Aug. 4.

***Ploughley, Oxon.**—Souldern sewerage and sewage disposal scheme, for R.D.C. Deposit £2. Tenders by Aug. 4.

***Rickmansworth, Herts.** — Surface water culvert at Davenham Avenue, for U.D.C. Deposit £2 2s. Tenders by July 26.

***Rowley Regis, Staffs.** — Stormwater sewer at Doulton Road, Springfield, for B.C Deposit £2 2s. Tenders by July 21.

Stratford-upon-Avon, War. — Supply and erection of the following equipment in connection with main pumping station and sewage disposal works, for B.C. Each item will be tendered for separately, but manufacturers may tender for more than one item if they wish: (a) Pumping equipments (i) main pumping station (flows up to 1,035 cumins), (ii) recirculation pumping station (flows up to 518 cumins); (b) fine screens, etc.; (c) detritus removal mechanism; (d) circular tank scraper mechanisms; (e) filter distribution equipment; (f) equipments for primary and secondary digesters; (g) flow recording instruments. Apply for full particulars to P. C. Smart, borough engineer, Rother Street, Stratford-upon-Avon. Tenders by Aug. 29.

Swaffham, Norfolk. — Sewerage scheme, parish of Bradenham, for R.D.C., including the laying of approx. 3,020yd. of 6in. sewers, with 44 manholes, the construction of duplicate settlement tanks, pumping station, filter beds, humus tanks and effluent drain, and the laying of approx. 1,040yd. of 4in. pumping main. Documents from J. S. Burton, clerk of the Council, Rural Council Offices, Market Place, Swaffham, Norfolk. Deposit £3 3s. Tenders by July 22.

Truro, Corn.—Construction of about 669yd. of 9in. diameter British Standard glazed stoneware pipe sewer and eight concrete tube manholes, Newham Fields, for City Council. Documents from the City Engineer and Surveyor, Municipal Buildings, Truro. Deposit £2 2s. (crossed cheque). Tenders by July 25.

West Penwith, Corn. — Construction of St. Erth and Canonstown sewerage scheme, for the R.D.C., including the provision and laying of 1,751yd. of 4in. diameter, 6,257yd. of 6in. diameter stoneware sewers, 663yd. of 4in. diameter, 103yd. of 6in. diameter spun-iron sewers or rising mains, and the construction of 167 manholes, two ejector stations, together with a sewage disposal works comprising concrete tanks, conventional biological filters, drying beds, pumphouse and ancillary works. Documents from G. H. Ivory and Partners, consulting engineers, 24 Athenaeum Street, Plymouth. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by Aug. 11.

STREET LIGHTING

Cuckfield, Sussex.—Erection only of 23 octagonal steel lighting columns and the fixing and wiring of 23 3/80-watt fluorescent lanterns, complete with all necessary control gear, group A standard, for U.D.C. Documents from the Surveyor, Council Offices, Oaklands, Haywards Heath. Deposit £1 1s. Tenders by July 28.

Epsom and Ewell, Surrey.—Erection of 203 group A street lighting columns, 25ft. mounting height, with 140-watt sodium lamps, together with wiring and fixing of lanterns and auxiliary gear, for B.C. Columns and equipment to be supplied by the Corporation. Documents from the office of Colin Cobbett, borough engineer and surveyor, Town Hall, Epsom. Deposit £2 2s. Tenders by July 25.

Harlow, Essex.—Street lighting, scheme III, for U.D.C., including the erection of 89 metal or concrete group B columns, four concrete group A columns, fixing of 24 wall brackets, and the fitting and wiring of lanterns and control gear, together with ancillary works, in various parts of the urban district. Documents from A. W. R. Webb, engineer and surveyor, Town Hall, Harlow. Deposit £2 2s., cheques payable to U.D.C. Tenders by July 30.

Ross-on-Wye, Heres.—Installation of street lighting, group A, trunk road A.40, for U.D.C.: Supply and erection of 36 steel columns and brackets; 10 steel brackets only, complete with 140-watt sodium lanterns and ancillary works. Documents from the Engineer and Surveyor, Council Offices, Broad Street, Ross-on-Wye. Tenders by July 20.

Surbiton, Surrey. — Provision of improved street lighting, 1960-61 programme and T.P. road 12, for B.C., including the installation of group A lighting, 193 sodium and 270 colour corrected mercury points. Documents from the office of R. Thirlway, borough engineer and surveyor, Council Offices, Ewell Road, Surbiton. Tenders by Aug. 10.

Twickenham, Middx.—Provision of 200-watt and 140-watt sodium vapour and 3 x 80-watt fluorescent lighting units on reinforced concrete and steel columns and brackets, for B.C. Approx. 600 lighting units are involved. Work A, supply and delivery of reinforced concrete

columns and brackets; work B, supply and delivery of steel columns and brackets; work C, supply and erection of lanterns and control gear and erection only of columns and brackets. Tenders may be submitted in respect of one or more of the works A, B and C, and persons submitting tenders in respect of all three works may, if they so desire, indicate as provided for in the form of tender, what reduction, if any, they would be prepared to make if their tenders are accepted in respect of all three works. Documents from the Borough Engineer and Surveyor's Office, York House, Twickenham. Deposit £2 2s. Tenders by July 22.

Wanstead and Woodford, Essex.—Installation of colour corrected mercury street lighting systems in Snakes Lane East (group A), Snakes Lane West (group B), and The Broadway (group B), for B.C. The works include taking down existing short gas columns, provision and erection of new equipment and appurtenant works. Documents from the Borough Engineer, Municipal Offices, Woodford, E.18. Deposit £2. Tenders by July 25.

Wortley, Yorks.—Street lighting at Ecclesfield, Stannington, Chapeltown, and High Green, near Sheffield, for R.D.C.: Installation of colour corrected mercury street lighting schemes, complete, as follows: (Scheme 54) Ecclesfield bus route—67 125-watt lamps on 20ft. columns; (55) Stannington bus route—60 80-watt lamps on 15ft. columns; (57) Chapeltown to High Green—74 125-watt lamps on 20ft. columns; (58) (part 1) Chapeltown—29 250-watt lamps on 25ft. columns. Concrete columns are specified, with some special decorative columns which may be of materials other than concrete, for certain sections of schemes 54, 55 and 57. Documents from Arthur Wikeley, engineer and surveyor, Council Offices, Grenoside, near Sheffield. Tenders by Aug. 10.

AWARDS

BUILDING AND DECORATING
(See also Housing Schemes)

Barking, Essex.—Following works, for B.C.: Balcony balustrading at Howard and Morley Roads development — H. Teale and Sons, Ltd., Garth Ironworks, Garth Road, Lower Morden, Surrey, £1,448; concrete frame and roof covering for Thames View Hall—Bell and Webster, Ltd., Essex Road, Hoddesdon, Herts., £1,072 (recommended).

Basingstoke, Hants. — (a) Supply and erection of prefabricated building, and (b) foundations, partitions, etc., for temporary Council chamber and office accommodation adjacent to Municipal Buildings, for B.C.:—(a) Terrapin, Ltd., Haddon House, 2-4 Fitzroy Street, London, W.1, £3,045; and (b) J. F. Powell, Church Street, Basingstoke, £1,598 (recommended).

Belfast.—Construction of foundations at Waring Street, for the Ulster War Memorial Building:—McLaughlin and Harvey, Ltd., 34 York Road, Belfast. Michael Bewley in association with Granville Smyth, architects, 22 Lombard Street; John Wright, quantity surveyor, 44-45 Textile Buildings, 2 Linenhall Street; S. O. Morton, structural consultant, 2 Elmwood Avenue. Tenders for the main buildings are expected to be invited in August.

Birmingham. — Following works, for City Council. A. G. Sheppard Fidler, city architect: Block of four classrooms at Goodwin Primary School:—Frank Davis (Builders), Ltd., College Road, Moseley, Birmingham, 13, £14,985; extension to Grove Lane Primary School:—F. Deeley, Ltd., 210 High Street, Harborne, Birmingham, 17, £19,548; four children's homes and four standard houses, Shard End and Tile Cross areas, contract 666:—J. and P. Kelly and Co., 595 Stratford Road, Sparkhill, Birmingham, 11, £35,528; 38 lock-up garages, Jervoise Road, Weoley Castle, contract G18/51:—John T. Harris, Ltd., 1 Oakwood Road, Sparkhill, Birmingham, 11, £7,415; Occupation Centre for Senior Boys, Aldridge Road, Perry Barr, contract C180/19:—J. E. Williams, Ltd., 163 Victoria Road, Birmingham, 6, £20,647.

Blackburn, Lancs.—Erection of farm buildings at Shadsworth Hall Farm, for B.C.: Silverwood and Southworth, Waddington, Clitheroe, £4,750 (recommended).

Cambridge.—Erection of a new building, for the Faculty of Economics and Politics at Cambridge University:—Kerridge (Cambridge), Ltd., 26-46 Sturton Road, Cambridge. Sir Hugh Casson, Neville Conder and Partners, architects, 35 Thurloe Place, London, S.W.7; A. S. Wilson and Partners, quantity surveyors, 8 Storeys Gate, London, S.W.1.

Chatham, Kent.—External painting of the following dwellings, for B.C.: Group A (83) and group E (210):—Architectural Decorators, Ltd., 79 Eccleston Square, London, S.W.1, £1,474 and £3,960, respectively; group C (90):—P. J. Hartel (London), Ltd., 1 Montague Street, London, W.C.1, £1,462; group D (218):—J. Durling and Son, Ltd., 86 Delce Road, Rochester, £5,258; group B (92):—Direct Labour, £1,647 (recommended).

Chelsea.—External redecoration of four eight-storey blocks at Cremorne estate, for B.C.:—Decorative Art Guild, Ltd., 43 Lower Belgrave Street, London, S.W.1, £3,627 (recommended); C. and T. Painters, Ltd., £4,061; W. J. Brooker, Ltd., £4,184; William Willett, Ltd., £4,478.

Chelsea.—Demolition and construction for redevelopment of a site between Pavilion Road and Sloane Street by erection of a five-storey block of offices, shops and mews flats, for Cadogan Settled Estates Co. J. Douglass Mathews and Partners, architects, 3 Ebury Street, London, S.W.1:—Holloway Bros. (London), Ltd., 157 Millbank, S.W.1. Estimated cost £250,000. Work commenced.

Cheltenham, Glos.—Alterations and extensions to the Norwood Arms, Shurdington Road, for Flower and Sons, Ltd. L. W. Barnard and Partners, architects, 13 Imperial Square:—Collins and Godfrey, Ltd., Grosvenor Street, Cheltenham. Work commenced.

Coleraine, Londonderry.—Erection of Methodist church hall and shops at Queen Street:—John Rainey and Son, Ltd., Coleraine Road, Portrush.

Dereham, Norfolk. — Retiling roofs and builders' works for the installation of lift at Beech House, Gressenhall, for C.C.:—H. Mack and Son, East Dereham, £7,610 (recommended).

Durham.—Erection of staffroom and improvements to ventilation at Crook Junior School, for the C.C.:—A. Lax and Sons, Crook, £4,967.

Erection of new St. Joseph's R.C. (aided) primary school at Gilesgate (first instalment). A. Rossi, architect, 88 Medomsley Road, Consett:—Henry Ayton and Son, George Street, Blackhill, Co. Durham, £25,573.

Fleetwood, Lancs.—Erection of collecting hall, for B.C.: Fleet Buildings, Ltd., Victoria Buildings, 53 Butts Road, Thornton Cleveleys, £5,478 (recommended).

Godalming, Surrey.—Erection of a factory on the Langham trading estate, Catteshall Lane, for Langham Estate Development, Ltd. Scott Brownrigg and Turner, architects, 32 London Road, Guildford:—Langham Cement Products, Ltd., Catteshall Lane, Godalming, Surrey, £20,000. Work commencing shortly.

Gosforth, Northumb.—Provision of indoor toilets and baths for staff houses at St. Nicholas' Hospital, for Newcastle Hospital Board:—H. Waller and Son, Ltd., St. Michael's Road, Newcastle upon Tyne, £5,403.

Greenwich.—Conversion works at various properties, as follows, for B.C.: 12 Hardy Road, 37 St. John's Park, 52 Shooter's Hill Road:—H. A. Mount and Co., Ltd., 253 Greenwich High Road, London, S.E.10, £1,888, £2,283, £3,757; 91 St. John's Park, 24 Little Heath:—Charles Mahony, 84 Handen Road, S.E.12, £1,739 and £2,215; 11 Kidbrooke Park Road, 3 Glenluce Road, 8 Hervey Road:—K. Fowler and Co., Ltd., 11 Station Crescent, S.E.3, £4,118, £3,464 and £1,919; 30 Tuskar Street:—W. J. Turpin, Ltd., 38 Royal Hill, S.E.10, £1,081; 44 Wellington Gardens:—Edward Dyke, Ltd., 18 Maze Hill, S.E.10, £3,518; 89 Humber Road:—H. C. Thorne, Ltd., 1 Eastcombe Avenue, S.E.7, £4,060; 45 St. John's Park, 128 Westcombe Hill and 102 Shooter's Hill:—H. E. Pamphlett, Ltd., London, S.E., £3,258, £1,472 and £4,142; 73 Hervey Road:—Luckett and Son, Ltd., 54a Mineral Street, S.E.18, £1,989; 40 Annandale Road:—A. C. Thomas and Co. (Builders), Ltd., 21 Lee High Road, S.E.13, £1,865 (all recommended).

Hampstead. — Following, for B.C.: External painting of Broadfield, Fairhurst and Broadhurst Close:—Architectural Decorators, Ltd., 79 Eccleston Square, London, S.W.1, £2,994; external painting and redecoration of communal staircases at South End Close:—George Jones and Son (Contractors), Ltd., 27b Kensington Church Street, W.8, £4,691; external painting and redecoration of communal staircases at Wood Field and Barn Field:—Architectural Decorators, Ltd., £3,257; erection of a 9in. brick wall, 2ft. 6in. high, along front boundary of Broadfield, abutting on north side of Broadhurst Gardens:—Cramb and Dean, Ltd., 104 Belsize Lane, N.W.3, £1,788 (all recommended).

Hereford. — Erection of 30 brick garages at Golden Post, 17 at Canonmoor Street, 28 at Mansbridge Avenue, 13 at Cagebrook Avenue and 28 at Belmont Road, for City Council: J. J. Edwards, Burcott Road, Hereford, £4,747, £3,275, £4,478, £1,990 and £3,643, respectively (recommended, subject to Ministry approval).

Ilford, Essex. — Twelve garages at Wensleydale Avenue, for B.C.: Bell and Webster, Ltd., Essex Road, Hoddesdon, Herts., £3,145 (recommended).

Ipswich, Suffolk.—Repairs to Chantry Mansion, for B.C.: Direct Labour. Estimated cost £7,725.

Kensington. — Following, for B.C.: External repairs, painting and decoration at Notting Hill Library, Pembridge Square:—T. H. Kenyon and Sons, Ltd., Chancellor Works, Croxley Road, London, W.9, £1,112; maintenance works at Henry Dickens Court:—Geo. Jones and Son (Contractors), Ltd., 27b Kensington Church Street, W.8, £2,506; maintenance works at Portobello Court:—F. Troy and Co., Ltd., Frognal, N.W.3, £4,558.

Kidderminster, Worcs. — Erection of the Cooper's Arms public-house at junction of Canterbury Road and Truro Drive, Habberley estate, for W. Butler and Co., Ltd.:—A. H. Guest, Ltd., Coalbourn Brook, Stourbridge. A. Sanford, architect, Quatford Cottage, Bridgnorth, and H. Vale and Sons, quantity surveyors, 47 Waterloo Road, Wolverhampton.

Kingston-upon-Thames, Surrey. — External redecorations contract, 1960-61, for B.C.:—P. J. Hartel (London), Ltd., 1 Montague Street, London, W.C.1, £2,264 (recommended).

Leeds.—Following works, for City Council: Erection of 16 garages at Ebor Gardens:—Reema (Chesterfield), Ltd., Starforth Lane, Chesterfield, Derbys., £2,488 (extension of contract, recommended, subject to Ministry approval).

Exterior painting of 293 dwellings on the Belle Isle estate and conversion of buildings at Beckett Street destructor depot:—Direct Labour, £3,436 and £5,340, respectively.

Erection of sports pavilion at Hunslet Moor:—Spooners (Hull), Ltd., Glebe Road, Stoneferry, Hull, £2,584; alterations to police lavatory accommodation at the Town Hall:—H. and D. Leslie, Ltd., 26a Beaufort Place, Leeds, 7, £1,274 (all recommended).

Leyton, Essex.—Stage 3 of the reconstruction of Cathall Roads Baths, for B.C.: C. Oliver and Sons (Builders), Ltd., 141 Harrow Road, London, E.11, £33,500 (recommended).

Lisburn, Antrim.—Construction of 24 lock-up garages at the Leamington estate, for U.D.C.:—Wm. McClean, Ballyhenry, Carnmoney, £4,210 (accepted); James McMullan and Co., Ltd., £4,726; Bowron and Manson, £6,760.

Liverpool.—Following works, for City Council: External painting of 30 houses in Upper Parliament Street—A. and E. Hindley Bros., 2 Grange Street, Rocky Lane, Liverpool, 6, £1,152; repairs, decorations and conversion into three self-contained flats, 42 Canning Street—T. W. Bayly, 46 South Barcombe Road, Liverpool, 16, £1,667; erection of changing accommodation at Thomas Lane playing fields and Bankfield playing fields—Rimmer Bros. (Liverpool), Ltd., Cheadle Avenue, Liverpool, 13, £10,190 and £10,320, respectively (recommended).

Erection of a new radio and mechanical engineering building at Riverside Technical College—D. Lesley (Contractors), Ltd., 20 Tithebarn Street, Liverpool, 2, £142,984 (recommended, subject to M.E. approval).

Construction of two five-bay garages, one to be erected in Breeze Hill and the other in Beaumont Street—David Lesley (Contractors), Ltd., 20 Tithebarn Street, Liverpool, 2, £6,736; stripping out defective timber flooring in billiards room and cloakroom at the Auxiliary Fire Service Training Centre, Belvidere Road, and supplying and laying a new reinforced floor, together with all necessary reinstatment—E. Stoll, 20 Upper Duke Street, Liverpool, 1, £1,050 (recommended).

Construction of shops and public conveniences on the site of 582a-584a Prescot Road, for M. Greenberg and Son, Ltd., 578-580 Prescot Road and City Council, respectively—Hibberts (Builders), Ltd., 103 Rockbank Road, Liverpool, 13, £17,537 (recommended).

Llanfyllin, Monts.—Erection of new offices, including Council chamber and court room, together with necessary site works, for R.D.C. H. Carr, county architect: John Hughes (Contractors), Ltd., 12a Holt Street, Wrexham, £31,955. Work to commence Aug. 1.

Loch Strivenhead, Argyll.—Construction of a N.A.T.O. oil fuel depot, for the Admiralty:—Melville Dundas and Whitson, Ltd., 21 Blythswood Square, Glasgow, C.2. Estimated cost £2m.

London.—Following, for City of London Corporation: Redecoration and repair at 123 New Bond Street:—P. Eustace and Son, Ltd., 23 Monument Street, London, E.C.3, £2,604 (recommended); George Smith of Avery Row, Ltd., £2,642; Mullen and Lumsden (Maintenance), Ltd., £2,733; G. Newton (Builders), Ltd., £3,050; re-laying of Market floor in connection with Billingsgate Market improvement scheme:—W. Miller (Plasterers), Ltd., 1a Wingfield Road, E.17, £9,892 (recommended); W. J. Mitchell and Son, Ltd., £11,303; F. and E. Eastman (England), Ltd., £14,225; maintenance, redecoration and repair at City of London Freemen's School:—Goodship and Saunders, Ltd., £7,556 (recommended); H. H. and F. Roll, Ltd., £7,870; T. Graham and Co., £7,954; R. D. Hope and Co., Ltd., £8,291; R. Holford and Co., Ltd., £8,396; maintenance, redecoration and repair at the Guildhall School of Music and Drama:—Druce and Co. (Decorations), Ltd., 44 Gloucester Avenue, N.W.1, £1,578 (recommended); W. J. Brooker, Ltd., £1,946; Ashby and Horner, Ltd., £2,004; R. Ridd and Sons (Contractors), Ltd., £2,075; Mullen and Lumsden (Maintenance), Ltd., £2,137; John Greenwood, Ltd., £2,315; annual redecoration and sundry repair and improvement works at the Mansion House:—Trollope and Colls, Ltd., 17 Noble Street, E.C.2, £7,249 (recommended); Mullen and Lumsden, Ltd., £7,718; Ashby and Horner, Ltd., £8,096; Gee, Walker and Slater, Ltd., £8,227; Holliday and Greenwood, Ltd., £8,240; modernisation of seven of the Gresham Almshouses, Brixton:—S. Varney and Co., Ltd., Credon House, Verney Road, S.E.16, £5,181 (recommended).

Manchester.—Following works, for City Council: Repairs to stonework in inner courtyard of Town Hall:—Frank Hewitt, Ltd., Scotland Street, Ashton-under-Lyne.

Following for Manchester Training College: Additional classroms:—J. T. Lawlor and Co., Ltd., Manchester; supply of prefabricated units:—Vic. Hallam, Ltd., Nottingham.

Soil investigation on hostel site for Didsbury Training College and on site for extensions to Regional College of Art:—Matthews and Mumby, Ltd., Oldham Street, Denton, and Simon-Carves, Ltd., Cheadle Heath, respectively.

Erection of Harpurhey Technical High School for Girls:—F. J. Gibson (Builder), Ltd., Riverside Works, Manchester Road, Wilmslow, Ches.

Structural steelwork for Royle Green County Infants' School, Northenden:—Walker Bros., Ltd., Walsall.

Following for Ducie Technical High School for Girls: Movable classroom:—Vic. Hallam, Ltd., Langley Mill, Nottingham; foundations, siteworks, painting, decorating, etc.:—Direct Labour.

Erection of Whitebrook Day School for Deaf Children, Fallowfield:—Moston Brick and Building Co., Ltd., Kenyon Lane, Manchester, 10.

Construction of 98 prefabricated concrete garages at Wythenshawe:—Four Square Industries (Middlewich), Ltd., Newton Works, Middlewich, Ches.

Erection of convenience at Hunters Lane, Gorton:—F. Bakewell, 11a Thomas Street, Manchester, 14; plumbing work:—R. Crabtree and Co., Ltd., Manchester (all recommended).

Middlesbrough, Yorks. — Additional toilet accommodation at the Town Hall, for the B.C.:—Direct Labour, £1,750.

Middlesex.—Erection of a central heating station building at London Airport, for Air Ministry:—Taylor Woodrow Construction, Ltd. Estimated cost over £100,000. Frederick Gibberd, architect, and Franklin and Andrews, quantity surveyors.

Morpeth, Northumb. — Erection of practical rooms at Stannington Children's Hospital, for the Co. E.C. C. C. Brown, county architect:—Cawood Wharton and Co., Ltd., Harrogate, £10,000.

Newcastle-under-Lyme, Staffs.—Extensions and alterations to the physics department at Keele (stages III and IVa), for the University College of North Staffordshire:—C. Cornes and Son, Ltd., Lichfield Street, Hanley, Stoke-on-Trent, £96,799. J. A. Pickavance, staff architect; Sutcliffe, Son and Watson, quantity surveyors, Madeley Manor, Madeley, near Crewe; Hoare, Lea and Partners, heating and electrical consultants, 23 St. James' Road, Edgbaston, Birmingham, 15, and Donovan Lee and Partners, structural consultants, 66 Victoria Street, London, S.W.1.

Newcastle upon Tyne. — Alterations to the County Court buildings for the Ministry of Works:—James R. Rutherford and Sons, Ltd., Jesmond Road, Newcastle upon Tyne.

Erection of office block in Neville Street, to be used as air terminal offices, etc., for firms using Woolsington Airport:—John T. Bell and Son, Market Chambers, Market Street, Newcastle upon Tyne.

Newcastle upon Tyne. — Following works, for City Council: Painting and decorating St. Dominic's R.C. Primary School:—Marshall and Johnston, Strawberry Lane, Newcastle, 1, £1,112; erection of a caretaker's house at Hillsview Primary School:—Robert Anderson (Builders), Ltd., Newcastle, £2,496; additional paved area and sundry works at Sacred Heart R.C. Secondary Modern School:—E. J. Jobling-Purser and Co., Ltd., Paradise Yard, Scotswood Road, Newcastle, 4, £1,003.

Northumberland. — Following works, for Co. E.C.: Additional classrooms at Longbenton Somervyl County Primary School:—Cawood Wharton and Co., Ltd., Harrogate, £4,685; alterations and additions to Westmoor George Stephenson Grammar School:—Building work—R. Anderson, Ltd., Stanmore Road, Newcastle upon Tyne, £5,450; heating—Malone and Son, Elmfield Road, Gosforth, £390; electrical work—F. Reid Ferens and Co., Ltd., Orchard Street, Newcastle upon Tyne, £461; erection of South-East Northumberland County Technical College:—R. W. Bell and Co., Ltd., Mistletoe Road, Jesmond, Newcastle upon Tyne, £300,000.

Norwich.—Erection of Woodside Infants' School, for E.C.:—Ford and Carter, Ltd., Baltic House, Mountergate, Norwich, £41,462.

Nottingham. — Following works, for City Council: Painting of all cast-iron and steel lamp columns in the city—Gallacher and O'Brien Enterprises, Ltd., Cumberland Chambers, Churchgate, Loughborough, £7,880; internal painting, county produce section, at the Central Market—F. Labbett and Sons, Ltd., Leen Gate, Lenton, Nottingham, £1,927 (recommended).

Oxford. — Erection of apprentices' training centre at land fronting the Eastern By-pass adjoining The Poplars, for the Pressed Steel Co., Ltd., Cowley, Oxford. H. W. Weedon and Partners, architects, 45-47 Calthorpe Road, Edgbaston, Birmingham, 15—Kingerlee and Sons, Ltd., Lamarsh Road, Botley, Oxford. Work has commenced.

Peterborough. — Erection of public conveniences at Walton Recreation Ground and 10 garages at Dogsthorpe housing estate, for City Council: S. B. Fairchild and Sons, Ltd., 11 Welland Road, Peterborough, £872, and Stevenson and Robinson, Ltd., 273 Dogsthorpe Road, Peterborough, £783, respectively (recommended, subject to Ministry approval).

Peterborough.—Painting and decorating at Deacon's, Lincoln Road, All Souls' R.C., Eastholm Junior Mixed and Infants', Queen's Drive, St. John's C.E., St. Mary's C.E., Walton Junior Mixed and Castor C.E. Schools, for the Joint Education Board:—T. E. Cundy and Son, Ltd., 28 Belgrave Road, Leicester, £4,219.

Exterior painting of Thorpe Hall, for the Hospital Management Committee:—Bettles Building Co., Ltd., Alma Works, Millfield, Peterborough, £999.

Rowley Regis, Staffs.—Erection of 16 garages at Tividale Hall estate, for B.C.: Direct Labour, £2,190 (recommended, subject to Ministry approval).

St. Marylebone. — Supply and erection of a shed for a paper baling plant at the Council Depot, 23 North Wharf Road, W.2, for B.C.:—Lindsay's Paddington Iron Works (1948), Ltd., North Wharf Road, London, W.2, £2,128 (recommended).

Salford, Lancs. — Following works, for City Council: Erection of public toilets at Ordsall Park:—E. Kennedy, Ltd., Hobson Street, Failsworth, £4,199; provision and fixing of roof and floor slabs for phase 2 of the Clarendon Secondary Modern School:—C. Musker and Brothers, Ltd., Bingham Street, Swinton, £8,846, less 2½ per cent. (both recommended).

Sheffield.—Following works, for City Council: First and second stage works of repair at dwellings and waterproofing treatment, etc., to roofs, 2-29 Painted Fabrics, Meadowhead:—Frank Clover and Sons, Ltd., 88 Blair Athol Road, Sheffield, 11, £7,999, and Evode, Ltd., Common Road, Stafford, £1,560, respectively; erection of the new Osgathorpe disinfecting station:—William Drabble and Sons, Ltd., Mosborough, Sheffield (all recommended).

Stafford.—Erection of the College of Technology at Weston Road, for C.C. Norman and Dawbarn, architects, 7 Portland Place, London, W.1:—Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, London, S.E.1. Estimated cost £450,000. Work to commence this month.

Thetford, Norfolk.—Erection of a second factory in the town for leasing to G. Williams Engineering Co., Ltd., for B.C.:—Goddards of Thetford (1954), Ltd., Station Road, Thetford, £23,894. Work commenced.

West Suffolk.—Extensions to King Edward VI Grammar School, Bury St. Edmunds, for E.C.:—Kingsbury and Sons, Ltd., Boxford, Suffolk, £43,983.

Whitley Bay, Northumb. — Rebuilding toilet accommodation at the Park County Primary School for Co. E.C.:—Crawford and Huddart, Wideopen, Northumberland, £9,200.

Wolverhampton, Staffs.—Erection of a large single-storey factory and two-storey office and canteen block at Fordhouses, for the Turner Manufacturing Co., Ltd.:—T.G. Construction Co., Ltd., Ettingshall, Wolverhampton. Estimated cost £237,000. Work just commenced.

Rebuilding of licensed premises at Great Brickkiln Street and Raglan Street, for W. Butler and Co., Ltd. H. Vale and Sons, quantity surveyors, 47 Waterloo Road:—E. Warren Baxter and Co., Ltd., Willenhall Road, Wolverhampton.

Worcester. — Following works, for City Council: Alterations and additions at Claines St. George's Primary School—T. Oliver (Builder), Ltd., 120 Ombersley Road, Worcester, £3,633 (recommended, subject to M.E. approval).

Internal redecoration of part of Henwick Grove Primary School—Harris and Sheldon, Birmingham, 4, £989; replacement of wood blocks in two assembly rooms at Gorse Hill Primary School—J. A. Hewetson and Co., Ltd., 222 Lode Lane, Solihull, £910 (recommended).

Worthing, Sussex.—Erection of six garages, six stores, boundary walls, gates, etc., at Limbrick Lane cottages, for B.C.:—Renown Contractors, Ltd., £2,410 (recommended).

CLOTHING AND TEXTILES

Worcester.—Supply of 100 donkey jackets and 100 pairs of leggings for use of street sweepers and highways maintenance employees, for City Council: Abestos and Rubber Co., Ltd., £230 (recommended).

DEMOLITION

Barking, Essex.—Demolition of the following, for B.C.: 26-42 Church Road and 34-50 Tanner Street—A. and D. Oxford, £72 and £92, respectively; 162-172 Ripple Road—A. R. Wright and Son, Ltd., 18a Coopers Lane, London, E.10, £72 (recommended).

Blackburn, Lancs. — Demolition of old farm buildings at Shadsworth Hall Farm, for B.C.: S. J. Sears, Blackburn, £150 (recommended).

Camberwell.—Removal of scrap plant from old public laundry at Camberwell Church Street Baths, and demolition of 32 Kimpton Road, for B.C.:—W. H. Penfold and Sons, Ltd., Belmont Grove, Belmont Hill, London, S.E.13, £819.

Croydon, Surrey.—Demolition of chimney at Stroud Green pumping station, for B.C.:—J. W. Elliott, 13 Strathmore Road, Croydon, £195 (recommended).

Fulham. — Demolition of premises at Field Road area, for B.C.:—A. A. Way, 133 Randall Avenue, London, N.W.2, £330 (recommended).

Grantham, Lincs.—Demolition of 17 bungalows at Alma Park, for B.C.:—G. Garnett, Beeston, Nottingham, £119 (recommended).

Guildford, Surrey. — Demolition of Tyting Farm stables for B.C.:—Dragon Plant Hire, Ltd., Walnut Tree Close, Guildford, £150 (recommended).

Hammersmith. — Demolition of 28-30 Leffern Road, for B.C.:—London Demolition Co., Ltd., £215 (recommended); Gowing and Pursey, Ltd., £275; T. E. Scudder, Ltd., £295.

Hampstead. — Demolition of the former Congregational Church and hall at Adelaide Road, for B.C.:—Leonard Perlin, Ltd., 45 Mount Pleasant Road, London, N.W.10, £511 (recommended).

Heston and Isleworth, Middx. — Demolition of (a) Magdala off-licence building and 2-10 (even) Worple Road, Isleworth, and (b) 393-407 (odd inclusive) Cranford Lane, for B.C.:—(a) L. Perlin, Ltd., 45 Mount Pleasant Road, London, N.W.10, £73, and (b) Frank Valori, Ltd., 34 Christchurch Road, London, S.W.2, £94 (recommended).

Lewisham.—Breaking up and removal of concrete bases and paths from hutment sites in Mill Road, Elmira Street and Porson Street, for B.C.:—E. W. Spears and Co., Ltd., 53 Callander Road, London, S.E.6, £720.

Maidenhead, Berks.—Demolition of 5-14 Waldeck Road, and miscellaneous buildings, for B.C.:—Wokingham Demolitions, 13 Patten Ash Drive, Wokingham, to pay Council £62 (recommended).

Manchester.—Demolition of the following, for City Council: Mawson Hall, Audenshaw:—Cox and Danks, Ltd., Frederick Road, Salford, 6; 16 properties at Wythenshawe:—Robert Walker (Haulage), Ltd., Wythenshawe, Manchester (both recommended).

Nottingham.—Demolition of the following, for City Council: Carrington clearance area: (contract 1) properties situate on land bounded by Hucknall Road, Birchin Street, The Market Place and Knox Street, and 1, 2 and 3 Adams Yard, Stockwell Street, Bulwell—J. Watts and Sons (Contractors), Ltd., Porchester Road, Thorneywood, Nottingham, £2,370 and £155, respectively; Hyson Green (contract 1), 31-35 Lenton Street, and warehouse and garages at Brassey Street and Lea Street—S. Pinder and Sons, Ltd., Church Street, Old Basford Nottingham, £190 and £250, respectively (recommended).

Peterborough.—Demolition work, for City Council: Various properties in Albert Place—R. Mease, £240; 2 Newark Avenue—D. Gray, £45 (recommended).

Rowley Regis, Staffs.—Demolition of unfit properties throughout the borough, for B.C.: Bower Contractors, Quarry Bank, £8 per house (recommended).

Sheffield.—Demolition of following, for City Council: Building at the Albion Saw Mills, Sheaf Street and Harmer Lane:—Saga Co., Staveley, Chesterfield, Derbyshire, £200; properties 74-76 Reginald Street, and 10-22 and 1-4 in Court 2, Fowler Street:—H. Morrell, £45; 44-56 and 1-10 in Court 4, Adelphi Street; 2-8 Martin Street; 148-156, 1-5 in Court 20; 1-5 and 9-13 in Court 22, Hammond Street; 2-3 in Court 13, Watery Lane; and 6-10 Brownell Street and 53-67 and the former Sportsman Inn, Park Hill Lane; 2-16 Manor Oaks Road; 21-41 Bernard Street and the former Granville Inn, Granville Street:—Sheffield and Rotherham Dismantling Co., 114 Abbey Field Road, Sheffield, 4, £410 and £260, respectively (all recommended).

Southwark.—Demolition and fencing works at housing sites, as follows, for B.C.: 70-82 Kingston Street:—William Willett (Contractors), Ltd., Sloane Square, London, W.1, £1,070 (recommended); Goodman Price, Ltd., £1,113; E. W. Spears and Co., Ltd., £1,248; Henry Froud, Ltd., £1,342; H. Cox and Sons, Ltd., £1,420; Villa Street area and St. Stephen's Vicarage:—E. W. Spears and Co., Ltd., 53 Callander Road, S.E.6, £3,770 (recommended); Goodman Price, Ltd., £3,864; Henry Froud, Ltd., £3,882; H. Cox and Sons, Ltd., £3,982; 291-297 Congreve Street:—E. W. Spears and Co., Ltd., £1,028 (accepted).

Southwold, Suffolk.—Demolition of the old blockhouse at north-east corner of the Pier Pavilion, for B.C.: Lehane, Mackenzie and Shand, Ltd., Matlock, Derbys. Estimated cost £300.

West Bromwich, Staffs.—Demolition of properties in the Greets Green 1 Compulsory Purchase Order, and the Peter Street 1 Compulsory Purchase Order, for B.C.: J. Chapman, 195 Belgrave Road, Calthorpe, Birmingham, 12, £549 and £149, respectively (recommended).

ELECTRICAL

Edmonton, Middx.—Provision of electric passenger lift in block B, Snells Park, and electrical installation, Alpha Road scheme, for B.C.:—Hammond and Champness, Haskins Works, Blackhorse Lane, London, E.17, £2,804, and Direct Labour, £6,349, respectively (recommended).

Hebburn-on-Tyne, Dur.—Electrical installation in four-storey maisonnettes being built in Station Road, for U.D.C.: Norman Robinson, South Shields, £1,740.

Lambeth.—Installation of two passenger lifts in the Town Hall, for B.C.:—Otis Elevator Co., Ltd., Falmouth Road, London, S.E.1, £7,555 (recommended).

Liverpool.—Supply and erection of a new bed-passenger lift in the Rumney Road block at Westminster House, for City Council: H. Breakell and Co. (Blackburn), Ltd., Whitebirk Drive, Blackburn, £2,100 (recommended).

Maidenhead, Berks.—Electrical installation at new Municipal Buildings, for B.C.:—W. H. Gaze and Sons, Ltd., 19 High Street, Kingston-upon-Thames, Surrey, £10,590 (recommended).

Manchester.—Following works, for City Council: Installation of the equipment for the conversion to vehicle actuation of traffic control signals at the junction of Oldham Road-Sherratt Street-Thompson Street:—Automatic Telephone and Electric Co., Ltd., Strowger House, 8 Arundel Street, London, W.C.2 (recommended, subject to Ministry approval).

Electrical installation work at 11 aged persons' bungalows on the Catterick estate:—F. L. Bampton, Ltd., Manchester; switchgear equipment, meters and electrical installation work for communal laundries forming part of contract 260A, St. George's redevelopment area:—Simmonds Electrical Contracting Co., Chadderton; installation of passenger lift at Newall View:—H. Breakell and Co. (Blackburn), Ltd., Whitebirk Drive, Blackburn; electrical installation at Moseley Road Secondary School:—Wainwright's (Electrical), Ltd., Manchester; electrical installation, Royle Green County Infants' School, Northenden:—F. Mather and Co., 2 Union Road, Stockport (all recommended).

Middlesex.—Supply and installation of two lifts in the power house and main pumping station at Deephams Works, sub-contract 7/6, for the East Middlesex Drainage Committee:—H. Morris, Ltd., 39 Victoria Street, London, S.W.1, £6,753 (recommended).

Norwich.—Renewal of the wiring and lighting installation in St. Andrew's Hall, for City Council: Johnson, Pearce and Co., Ltd., 48 Pitt Street, Norwich, £3,234 (recommended).

Nottingham.—Provision of improved lighting in the slaughterhalls of the public abattoir, for City Council: East Midlands Electricity Board, £1,075 (recommended).

Sheffield.—Modernisation of electrical installation at Town Hall, for City Council:—Yorkshire Electricity Board, £9,470 (recommended).

Worcester.—Installation of a lift and provision of additional sanitary accommodation in the women's section at Hillborough, for City Council: Edward Higgs, Ltd., Orchard Works, Union Place, Northwick Road, Worcester, £10,473 (recommended).

FENCING

Barking, Essex.—Supply and erection of (a) chain-link fencing at Barking, Mayesbrook and Greatfields Parks, and (b) concrete palisade fencing at Barking Park, for B.C.:—R. W. Rickett and Co., £499, and Bell and Webster, Ltd., Essex Road, Hoddesdon, Herts., £930, respectively (recommended).

Hertford.—Replacement of approximately 1,606yd. of chain link fencing at Hertingfordbury Road housing estate, for B.C.: Malan Stephens and Johnson, Ltd., 53 Vallance Road, Wood Green, London, N.22, £1,165 (recommended); Peerless Fence and Products, Ltd., £1,989; Boulton and Paul, Ltd., £2,794.

Kingston-upon-Thames, Surrey.—Fencing of the Palace estate playing fields, for B.C.:—Challenge Fencing, Cobham, £1,354 (recommended).

Manchester.—Following, for City Council: Supply and erection of wrought-iron railings and gates at Boggart Hole Clough and Wythenshawe Park:—Raymond Sleigh, Ltd., Pownall Street, Leigh, and Thomas Bowen, Ltd., Wolverhampton, respectively; supply and erection of chain link fencing at Heaton and Wythenshawe Parks:—Darlington Fencing Co., Ltd., Balby, Doncaster (recommended).

Oxford.—Supply and erection of unclimbable fencing on the north boundary at Headington Hall Park, for City Council: Bayliss, Jones and Bayliss, Ltd., Victoria Works, Cable Street, Wolverhampton, £1,604 (recommended).

Salford, Lancs.—Erection of iron railings and gates at Broughton Centre and Special Care Unit and laying out grounds, for City Council:—Direct Labour, £1,180 (recommended).

GAS AND WATER SUPPLY

Croydon, Surrey.—Installation of Stroud Green pumping station of permanent electrically operated plant, for B.C.: pumping plant:—Gwynnes Pumps, Ltd., Hammersmith, London W.6, £2,315; electrical control panel:—Dewhurst and Partner, Ltd., Hounslow, Middx., £3,977; motorised pump delivery valves:—J. Blakeborough and Sons, Brighouse, £585; water treatment plant:—Wallace and Tierman, Ltd., London, W.4, £2,411; flow metering equipment:—Electro-flo Meter Co., Ltd., London, N.W.10, £398 (recommended).

Grimsby, Lincs.—Supply and installation of plant at a proposed pumping station at Tetney, near Grimsby, for North-East Lincolnshire Water Board, comprising three V.S. split casing pumps, each capable of delivering approximately 104,000 g.p.h. agains a head of 45ft., together with pipework, valves, instruments and control equipment. Cyril Cooper, engineer and manager: Harland Engineering Co., Ltd., Alloa, £17,450

Heston and Isleworth, Middx.—Modifications to the filtration plant at the Heston and the Isleworth Baths and the replacement of a bath heating calorifier at Hounslow Baths, for B.C.:—Pulsometer Engineering Co., Ltd., 39 Victoria Street, London, S.W.1, £814 (recommended).

Leeds.—Supply of following, for City Council: 500 fire hydrants:—J. Blakeborough and Sons, Ltd., Brighouse, Yorks., £3,862; 500 fire hydrant boxes:—Dudley and Dowell, 79 Scott Road, Sheffield, 4, £656; 5,000 stop valve boxes:—Princes Foundry Co., Ltd., Bradleys Lane, Princes End, Tipton, Staffs., £1,729; cast-iron pipes and bends:—Staveley Iron and Chemical Co., Ltd., Chesterfield, Derbys., £2,729, and double flange sluice valves:—Guest and Chrimes, Ltd., Rotherham, £1,390 (all recommended).

Liverpool.—Laying about six miles of pipeline from Barrow to Frodsham (Contract 9), in connection with laying the 60in. dia. pipeline of aqueduct from Huntington to Norton water tower, for City Council: R. G. Horton, Ltd., Delph Road, Brierley Hill, Staffs., £328,624 (recommended, in lieu of previous tender).

Loughborough, Leics.—Laying of 9in. diameter spun-iron mains in Swan Street, The Rushes and Derby Road, for B.C.:—H. Stirland and Sons, Ltd., Kimberley, Nottingham, £1,362 (recommended).

Machynlleth, Monts.—Comprehensive water supply scheme, contract 3, for R.D.C., comprising the laying in Montgomeryshire, in and adjacent to Pandy, Wynnstay, Llanbrynmair and Bont, of approximately 94yd. of 6in., 4,989yd. of 5in., 4,641yd. of 4in., 8,240yd. of 3in., 1,240yd. of 2in. and 110yd. of 1¼in. asbestos-cement pipes, construction of one 250,000-gallon reinforced concrete-covered storage reservoir, filter house and settlement tanks, stream intake works on the Avon Cwm, Nant-yr-ysgoldy, Clergyrnant and Nant Rhyd-y-car, together with break pressure tanks, pressure reducing valves, including house connections. Wallace Evans and Partners, consulting engineers, 30 Stanwell Road, Penarth, Glam.: C. R. Coxhills, Ltd., Newport, Salop, £67,574 (accepted); Bullington Road Rolling Co., £75,320. Work to commence mid-August.

Manchester.—Following, for City Council: Supply of two manually operated and one electrically and automatically operated penstocks for Godley Filter Plant:—J. Blakeborough and Sons, Ltd., Brighouse, Yorks.; supply of submersible bore hole pump for Phillips Park abattoir:—A. E. Skeet (Water Supplies), Ltd., 64 Aldermanbury, London, E.C.2.

Provision and installation of chlorination plant at Wythenshawe Swimming Pool:—Wallace and Tiernan, Ltd., Power Road, London, W.4 (all recommended).

Roxburghshire.—Ale water scheme, contract 16, for C.C. Crouch and Hogg, civil engineers, 18 Woodside Crescent, Glasgow, C3:—Wilson, Kinmond and Marr, Ltd., 684 Duke Street, Glasgow, E.1, £23,243 (accepted); George Stevenson, £23,860; Alexander Thomson and Co. (London), Ltd., £24,186; R. E. Clark and Co., £24,957; Rodger (Builders), Ltd., £26,670; R. J. McLeod (Contractors), Ltd., £27,887; Casey and Darragh, £35,568 Hugh Leggat, Ltd., £43,343.

Salisbury and Wilton, Wilts.—Regional water supply, stage 4, Chalke Valley, for R.D.C., comprising laying of approximately 23 miles of 8in., 6in., 4in. and 3in. diameter spun-iron mains, and construction of a 250,000-gallon reinforced concrete reservoir, together with works incidental thereto, at Ebbesbour Wake, Broadchalke, Bowerchalke, Bishopstone and Coombe Bissett, near Salisbury. Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton:—Thomas Carey and Son, Ltd., Station Buildings, East Finchley, London, N.2, £110,235. Work about to commence.

Salisbury and Wilton, Wilts.—Laying of approximately 1½ miles of 4in. diameter spun-iron main, and works incidental to the construction of a water tower, and to the development of an existing borehole at Lopcombe Corner, near Salisbury, for R.D.C. Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton: G. J. Furneaux, Ltd., 251 Barrack Road, Christchurch, Hants, £11,316. Work about to commence.

Thame, Oxon.—Water supply, contract 10, for U.D.C., comprising the laying of approximately 4,600yd. of spun-iron pipes varying from 12in. to 3in. diameter, and all ancillary works. John Taylor and Sons, consulting engineers, Artillery House, Artillery Row, Westminster, S.W.1: J. Murphy and Sons, Ltd., 43 Charteris Road, London, N.4, £24,227 (accepted); Hinkins and Frewin, Ltd., £25,638; Martin Mullen and Co., £26,018; Costelloe and Kemple, £26,811; D. and H. Contractors, £27,538; Bridgwater Bros., Ltd., £27,642; Thos. Carey and Son, Ltd., £29,482; Soil Eng:-

neering and Contracting Co., Ltd., £35,810; T.H. Contractors, Ltd., £37,224; Frain Bros. (London), Ltd., £38,613; Smith's Plant Hire and Contractors, Ltd., £38,732; Mylbro Contractors, Ltd., £39,883.

Warwick.—Old Milverton water scheme, for R.D.C., comprising laying of approximately 1,200yd. of 4in. and 400yd. of 3in. asbestos-cement water mains and some 20 consumers' connections. The work will be located in the parish of Old Milverton, immediately north-west of Leamington Spa and some 230yd. of main is to be laid within the borough. E. A. Lyne, engineer and surveyor:—Roads and Sewers, Ltd., Slough, Bucks., £3,253 (accepted); Abacon, Ltd., £3,027; J. Mannion and Co., £3,986; Farm Services, Ltd., £4,154. Work about to commence.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Kensington.—Erection of a new jetty at Chelsea Wharf, in connection with refuse disposal, for B.C.:—J. L. Kier and Co., Ltd., 7 Lygon Place, London, S.W.1, £18,253 (recommended, revised tender).

HEATING AND VENTILATING

Ashington, Northumb.—Engineering services for four-storey ward block at General Hospital, for Newcastle upon Tyne Regional Hospital Board. R. W. Gregory and Partners, consulting engineers, Pilgrim House, Pilgrim Street, Newcastle upon Tyne:—J. H. Shoukmith and Son, York, £26,279.

Harrow, Middx.—Installation of an automatic, oil-fired, central heating system at 7 Lyon Road, for C.C.:—Taylor Engineering (Heating Services), Ltd., 387 The Highway, London, E.1, £1,526 (recommended).

Lambeth. — Installation of new boiler plant and equipment in the Town Hall, for B.C.:—Stitson, White and Co., Ltd., 34 Brook Street, London, W.1, £4,725 (recommended).

Oxford.—Provision and installation of boiler and renewal, where required, of existing pipework at Swinford waterworks, for City Council: F. Church, Canterbury Works, Glanville Road, Oxford, £4,507 (recommended).

Peterborough. — Heating and domestic hot water installation at Cromwell Road County School, for the Joint Education Board:—Clarks, Plumbers, Ltd., Maiden Lane, Stamford, £1,788.

HOUSING SCHEMES

Adwick-le-Street, Yorks.—Eight houses, drainage and ancillary works at Old Skellow, for U.D.C. W. S. Ellis, engineer and surveyor: R. Dunkerley and Sons, Ltd., Building Contractor, Highfield Road, Doncaster. Work just commenced.

Basildon, Essex.—Fourteen-storey block comprising 84 flats with basement garage and three two-storey shops at ground level, at the Town Centre, for the Development Corporation:—Holland & Hannen and Cubitts (Great Britain), Ltd., 1 Queen Anne's Gate, London, S.W.1, £320,000. Sir Basil Spence and Partners, architects, 1 Canonbury Place, London, N.1, in conjunction with A. B. Davies, chief architect to Development Corporation; Ove Arup and Partners, consulting engineers, 13 Fitzroy Street, London, W.1; E. C. Harris and Partners, quantity surveyors, Lynton House, 7-12 Tavistock Square, London, W.C.1. Work has commenced.

Bermondsey.—One hundred and twelve dwellings on Abbey Street (North) site, phase 3, for B.C.:—Direct Labour, £300,161 (recommended, subject to Ministry approval); Stewart and Partners, Ltd., £304,733; Y. J. Lovell and Son, Ltd., £324,968; Thomas and Edge, Ltd., £311,499; Leslie and Co., Ltd., £325,661; W. J. Simms, Sons and Cooke, Ltd., £315,728.

Birmingham.—Following works, for City Council. A. G. Sheppard Fidler, city architect: 179 dwellings and garage accommodation for 165 cars, Bunbury Road estate, Northfield, contract 697:—W. J. Whittall and Son, Ltd., 132 Lancaster Street, Birmingham, 4, £481,470; 23 dwellings, various small sites, contract 730 (J-N):—Direct Labour, £36,639

Bodmin, Corn.—Eighteen bungalows at Trelawney Road, for B.C.:—Standons, Springfield, St. Mary's Road, Bodmin, £25,870 (recommended, subject to Ministry approval).

Cardiff.—Fifty dwellings and six garages at Green Farm, Ely, for City Council:—Staverton (Contractors), Ltd., Imperial Buildings, 69 St. Mary Street, Cardiff, £82,543 (recommended).

Grantham, Lincs. — Forty-three houses at Earlesfield estate housing site 10, scheme 49, for B.C.:—W. J. Roberts and Son (Bottesford), Ltd., Bottesford, Nottingham, £61,647 (recommended, subject to Ministry approval).

Hereford. — One hundred and forty-seven houses 12 bungalows, one corner shop and 155 garages at Newton Farm estate, section 5, for City Council: J. H. Williams and Sons (Ellwood), Ltd., Coleford, Glos., £270,016 (recommended, subject to Ministry approval).

Hertford. — Following works, for B.C.: 105 dwellings and 40 garages at Sele Farm housing estate—J. Dixon and Son (Ware), Ltd., Phoenix Works, Star Street, Ware, Herts., £202,641 (recommended, subject to Ministry approval); S. and G. Peachey and Sons, Ltd., £206,260; Stevenson-Spence, Ltd., £211,971; David Chaston, Ltd., £212,896; E. S. Moss, Ltd., £215,394; William Ellis (Etchingham), Ltd., £216,545; Joseph Cartwright, Ltd., £226,254.

Demolition of 24 A to H, and 26 and 28 West Street and the erection on site of 20 old people's dwellings in two blocks—Stevenson-Spence, Ltd., 3 Arden Grove, Harpenden, Herts., £43,880 (recommended, subject to Ministry approval); Geo. Mott and Son, £44,497; E. S. Moss, Ltd., £45,298.

Ilkeston, Derbys.—Forty-seven dwellings (scheme 38) at Kirk Hallam estate, for B.C.:—F. Sisson and Sons, Ltd., 79 Cromford Road, Langley Mill, Nottingham, £59,635 (recommended).

Keswick, Cumb.—Erection of a building consisting of 20 aged persons' flatlets, with wardens' accommodation and communal rooms, etc., for U.D.C.:—I. and R. Hodgson, Stranger Street, Keswick, £25,216.

Kingston-upon-Thames, Surrey.—Old people's dwellings at Cambridge Gardens, for B.C.:—Tregellis Bros., £15,777 (recommended).

Lambeth. — Improvements and conversion to properties, as follow, for B.C.: 16, 32 and 74 Richborne Terrace:—Building and General Services (Victoria), Ltd., 98 Lavender Hill, London, S.W.11, £3,096, £2,371 and £3,001; 28-30 Grantham Road, 36 Grantham Road and 54 Hemberton Road:—Whyatt (Builders), Ltd., 225 Streatham High Road, S.W.16, £8,685 (revised tender); 47 Fentiman Road:—Direct Labour, £3,240; 18, 20 and 22 Mervan Road:—W. H. White (Crofton Park), Ltd., £6,254; 3 and 16 Winterwell Road, 14 Haycroft Road and 37 Horsford Road:—Building and General Services (Victoria), Ltd., £7,917; 62 Acre Lane:—Wm. Harbrow, Ltd., 214 Rotherhithe New Road, S.E.16, £3,614; 65 and 67 Akerman Road, 75 Akerman Road, 39 Dulwich Road, 60 Effra Parade, 3 Hilda Road, 38 Tindal Street, 13 Treherne Road, 38 Treherne Road:—Whyatt (Builders), Ltd., £22,128; 4 Alexandra Drive, 51 Chancellor Grove, 20 Idmiston Road, 132 Rosendale Road:—Parsons and Sons, 38 Streatham Place, London, S.W.2, £10,266; 1 Casewick Road, 9 Thurlby Road, 78 Wolfington Road:—H. T. Oliver and Sons, Ltd., 371 Clapham Road, S.W.9, £7,145; 21 Crawshay Road, 63 Ferndale Road, 65 Solon Road:—W. H. White (Crofton Park), Ltd., £5,144; 185 Kennington Road, 152 Lambeth Road:—W. Hart, Ltd., 72 Blenheim Gardens, S.W.2, £6,405; 33 Knowle Road, 41 Lorn Road, 216 Stockwell Road:—T. Smith and Son, 116 Glengall Road, S.E.15, £10,194 (all recommended, subject to Ministry approval).

Leeds.—Twelve ageing persons' flats on the Wyther estate, for City Council: Direct Labour, £13,508 (recommended, subject to Ministry approval).

Lewisham. — Following, for B.C.: Twenty maisonnettes and seven garages at 19-39 Stanstead Road:—Henry Kent (Builders), Ltd., 51 Beacon Road, London, S.E.13, £49,165 (recommended, subject to Ministry approval); Greenaway and Son, Ltd., £49,521; W. R. Oldham, Ltd., £49,900; J. and R. Rooff, Ltd., £50,999; T. R. Roberts (Builders), Ltd., £51,727; Mullen and Lumsden, Ltd., £52,584; Thomas and Edge, Ltd., £52,606; Rowley Bros., Ltd., £53,201; W. J. Simms, Sons and Cooke, Ltd., £53,271; T. Cutler and Sons, Ltd., £53,581; M. J. Gleeson (Contractors), Ltd., £55,560; 15 maisonnettes, three flats and 12 garages at 3-11 Lee Church Street, and 49-71 Dacre Park (stage 6 of Lee Church Street housing scheme):—Herbert Richardson and Sons, Ltd., Slade Green Road, Erith, Kent, £43,136 (recommended, subject to Ministry approval); Greenaway and Son, Ltd., £43,204; Henry Kent (Builders), Ltd., £43,484; T. R. Roberts (Builders), Ltd., £45,174; Halse and Sons, Ltd., £45,906; M. J. Gleeson (Contractors), Ltd., £46,112; Thomas and Edge, Ltd., £46,284; A. Roberts and Co., Ltd., £46,429; W. J. Simms, Sons and Cooke, Ltd., 46,432; Mullen and Lumsden, Ltd., £46,560; T. Cutler and Sons, Ltd., £46,712; Rowley Bros., Ltd., £47,103.

Lisburn, Antrim.—Eight dwellings at Greenwood estate on site off Young Street, for U.D.C.:—James McMullan and Co., Ltd., Knockmore, Lisburn, £15,850 (accepted); Best Bros., Ltd., £16,211; Leslie Bell, Ltd., £16,533; Rowley Construction Co., £17,025; B. R. Laffin, £21,838.

Liverpool. — Twelve three-bedroom maisonnettes, Lancaster Street, for City Council: Direct Labour (recommended, subject to Ministry approval). Estimated cost £21,980.

Loughborough, Leics. — Thirty flats at Pinfold Street, for B.C.:—W. Davis and Co. (Leicester), Ltd., Forest Fields, Forest Road, Loughborough, £45,484 (recommended).

Maelor, Flints.—Twenty houses at Penley, for R.D.C.:—J. F. Roberts and Sons, Ltd., Trevor, Ruabon, Wrexham, £28,894 (subject to Ministry approval).

Manchester. — Following works, for City Council: Nine aged persons' bungalows at Weller Avenue, Barlow Moor estate, and 36 dwellings at Ossington Walk, Northern Moor:—Humphrey Park Estates, Ltd., Humphrey Lane, Urmston; 22 maisonnettes at Thornton Street, Collyhurst:—Direct Labour; five aged persons' bungalows at Catterick estate:—E. V. Hughes and Partners, Platt Lane, Manchester, 14 (all recommended, subject to Ministry approval).

Provision and erection of balcony and staircase balustrading to maisonnettes at Church Street, Collyhurst:—George Wragge, Ltd., 295 Oldfield Road, Manchester, 5; laying of thermoplastic floor tiling to multi-storey block of flats at Kingsgate Road, Woodhouse Park:—Marley Tile Co., Ltd., Delamere, Northwich.

Six aged persons' bungalows at Hart Road, Wilbraham estate:—E. V. Hughes and Partners (negotiated tender, recommended, subject to Ministry approval).

Middlesbrough, Yorks.—Twenty-six houses on the Easterside estate, for the B.C.:—Marway Builders, Ltd., Nunthorpe, Middlesbrough.

Morley, Yorks. — Sixty-six dwellings and preparation of site, Old Road estate, Churwell, for B.C.:—Lindley Bros., Ltd., Commercial Street, Morley, £97,271 (recommended subject to Ministry approval).

Newcastle upon Tyne.—One hundred and forty-seven flats in three storeys on the Newbiggin Hall estate, group 16, in the Rural District of Castle Ward, for City Council: John Twiname, Ltd., Allerdale House, Brigham, Cockermouth, Cumberland, £225,711 (recommended, subject to Ministry approval).

Nottingham.—Following works, for City Council: 10 flats, six almshouses and 26 garages at Bilborough estate—W. Westerman, Ltd., 158 Bye-pass Road, Chilwell, Nottingham, £25,390; 12 flats and two garages and parking facilities for four vehicles at Robin Hood Chase—H. and E. Loach (Builders), Ltd., 105 Station Road, Carlton, Nottingham, £22,456 (recommended).

Paddington.—Erection of a six-storey block of 36 flats, a four-storey block of 10 flats, and four ancillary blocks of pram stores, at stage 6 of Hall Park area, for B.C.:—Rowley Bros., Ltd., Tower Works, London, N.17, £94,581.

Peterborough.—Twenty-two houses at Bluebell estate extension, for City Council: S. B. Fairchild and Sons, Ltd., 11 Welland Road, Peterborough, £25,723 (recommended, subject to Ministry approval).

Ploughley, Oxon.—Four pair of bungalows and roadworks at Valentia Close, Bletchingdon, for R.D.C.: A. E. Hobley and Sons, Ltd., Kingston Mount, Northleigh, Witney, Oxon, £12,995.

Rugby, War.—Sixteen two-storey old persons' flats fronting Coton Road on the east side of Featherbed Lane, for B.C.:—Browning Construction Co., Ltd., 19 Hillmorton Road, Rugby, £25,129.

St. Ives, Hunts.—Six bungalows at Wyton, for R.D.C.:—A. J. Potter and Sons, Ltd., High Street, Stanwick, Raunds, £12,249 (subject to Ministry approval).

Stokesley, Yorks.—Following, for R.D.C.: (1) Sixteen one-bedroom old persons' bungalows at Yarm (Willey Flatts estate); (2) four one-bedroom old persons' bungalows at Stainton (Meldyke Lane) estate, comprising site clearance, traditional substructure and superstructure works, drainage and water services: H. Johnson, engineer and surveyor: (1) G. L. Finch, 25 Springfield Avenue, Stockton-on-Tees, £18,700; (2) H. W. Homer and Son, 20 Nut Lane, Longlands, Middlesbrough, £5,081.

Sunderland, Dur. — Eighty houses in the Coronation Street redevelopment area, and 200 on Town End Farm estate, for the B.C. H. C. Bishop, borough architect:—Direct Labour.

Tayport, Fifes.—Various works for 24 houses at Banknowe housing site and four houses at Shanwell Road South, for B.C. Peter Sinclair, architect, 305 Wellesley Road,

Methil: Mason:—Frank Walker (Builders), Ltd., 26 Elgin Street, Kirkcaldy, £20,599; joiner:—David Dewar, Aldersyde, Wellesley Road, Methil, £11,033; plumber:— W. Fenwick and Son, 4 Well Road, Dundee, £4,991; plaster:—Frank Walker (Builders), Ltd., Kirkcaldy, £3,308; roof tiler and roughcaster:—Peter Kelly and Sons, Ltd., 35 Brunswick Road, Edinburgh, £3,830; painter:—Direct Labour, £1,145; electrician:—Thos. Dunsire, 53 Tom Morris Drive, St. Andrews, £1,609; glazier:—Reid and McCutchean, Dundee, £215.

Wednesbury Staffs.—Forty-four No-fines non-traditional houses at Old Park Road, for B.C.:—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £70,340 (recommended).

Wisbech, I. of E.—Eight houses at Staithe Field estate, for B.C.:—Law Bros. (Builders), Ltd., City Road, Littleport, Ely, £13,321 (recommended).

MATERIALS AND SUPPLIES

Edmonton, Middx.—Supply of the following, for B.C.: Metal windows for (a) Y.O.C. and Cedars estate, and (b) Snells Park, block B:—Crittall Manufacturing Co., Ltd., 210 High Holborn, London, W.C.1, (a) £3,148 and (b) £1,565; sanitary fittings for Y.O.C. and Cedars estate:—Stitson Sanitary Fittings, Ltd., 106 Victoria Street, London, S.W.1, £2,858; steel reinforcement for Snells Park, block B:—Reinforced Concrete Steel Co., Ltd., 54 Victoria Street, London, S.W.1, £5,175 (recommended).

Nottingham.—Supply of the following, for City Council: Imported light hardwood—Southerns, Ltd. (Kettering Timber Co.), The Crescent, Queensberry Road, Kettering, Northants, £1,734; 3,250 gallons of ivory-cream paint and 2,750 gallons of undercoat—Cox Bros. and Co. (Derby) Ltd., Normanton Road, Derby 22s. 7d. and 21s. per gallon, respectively; 1,500 gallons of ivory-cream exterior emulsion paint—Johnson Bros., Ltd., 30a Bowles Street, London, S.E.1, 20s. 3d. per gallon (recommended).

Salford, Lancs.—Supply of 3,000 galvanised dustbins and covers and 45 refuse containers, for City Council:—Bretell and Shaw Ltd., Brierley Hill, Staffs., £4,976, and Parkinson and Sweaney, Ltd., Manchester, £810, respectively (recommended).

PLANT AND MECHANICAL TRANSPORT

Castleford, Yorks.—Supply of one Dennis diesel driven gully and cesspool emptying machine, for B.C. A 1945 Dennis 5-ton gully and cesspool machine is to be taken in part exchange:—Dennis Bros., Guildford, Surrey, £2,499.

Edmonton, Middx.—Supply of Karrier Bantam 2-ton tipping truck, for B.C.:—Ray Powell, Ltd., 113 Fairlop Road, London, E.11, £956, less £50 for Morris truck in part exchange.

Hertford.—Supply of a Long Land Rover with diesel engine and hydraulic snow-plough attachment, for B.C.: Hertford Motor Co., Ltd., Hertford, £920 (recommended).

Ilford, Essex.—Supply of four Karrier Gamecock refuse collecting vehicles, for B.C.:—Ray Powell, Ltd., 374 Eastern Avenue, Ilford, £8,032 (recommended).

Ilkeston, Derbys.—Supply of (a) two 3-ton low frame diesel lorries, and (b) one mechanical shovel, for B.C.:—Furrows, Ltd., 78 Castle Foregate, Shrewsbury, £2,118, less allowance of £300 for two old vehicles, and F. E. Weatherill, Ltd., Welwyn Garden City, Herts., £1,960, less allowance of £250 for old machine.

Ipswich, Suffolk.—Supply of a model 12H loading shovel and an 8-ton diesel road roller, for B.C.: F. E. Weatherill, Welwyn Garden City, Herts., £1,906, and Aveling-Barford, Ltd., Grantham, Lincs., £3,090, respectively.

Leyton, Essex.—Supply of four 45 cu. yd. Transport moving floor alloy bulk refuse collection bodies mounted on FG6/24 eight-wheeled Foden chassis, for B.C.: Glover, Webb and Liversedge, Ltd., 561 Old Kent Road, London, S.E.1, £6,408 (recommended).

Liverpool.—Supply of following, for City Council: Three gritting machines and the mounting on existing vehicle chassis: Atkinson's Agricultural Appliances, Ltd., Clitheroe, £685 each; 25ft. long semi-portable weighbridge, for use at Sefton Meadows refuse tip—Ashworth Ross and Co., Ltd., Dewsbury, £1,275; International agricultural tractor—C. M. Hesford, Ltd., Ormskirk, £666; one Whitlock Dinkum Digger—Quarry Plant Hire Service (North West), Ltd., Field Road, Wallasey, Cheshire, £2,606; one 3-ton Ford Thames wagon (157in. wheelbase) with diesel-driven engine and accessories, including painting and lettering—A. W. Webb, Ltd., Berry Street, Liverpool, 1, £861; one 7-ton Commer short wheel-base, forward control tipping lorry, with petrol accessories — E. Roy Evans, Maddox accessories—Mr. E. Roy Evans, Maddox Garage, Willow Street, Oswestry, £1,324; one Land-Rover, series II, regular 88in. wheelbase, with petrol engine and fitted with a hard top—J. Blake and Co., Ltd., 110 Bold Street, Liverpool, 1, £612; four Dennis F24 forward control fire appliances—Dennis Bros., Ltd., Guildford, Surrey, £4,609 each; three Merryweather Marine fire and salvage pumping sets, incorporating Rolls-Royce oil engines—Merryweather and Sons, Ltd., Greenwich High Road, London, S.E.10, £3,685 per set (all recommended).

Newcastle upon Tyne.—Supply of following, for City Council: Two angledozers:—R. H. Patterson and Co., Ltd., Forth Street, Newcastle, 1, £4,850; one Dennis gully emptying vehicle:—Dennis Bros., Ltd., Guildford, Surrey, £2,935.

Newton Abbot, Devon.—Supply of one 3-ton long wheelbase normal control diesel engine vehicle, complete with wooden drop side body, steel plated floor and hydraulic tipping gear, the supplier taking in part exchange a 3-ton long wheelbase Austin hydraulic tipper, for R.D.C.: A. C. Bulpin and Son, Ltd., automobile engineers, Newton Abbot, Devon, £958.

Norfolk.—Supply of three water tenders, type B, for C.C.:—J. H. Jennings and Son, Ltd., £3,130 each (recommended).

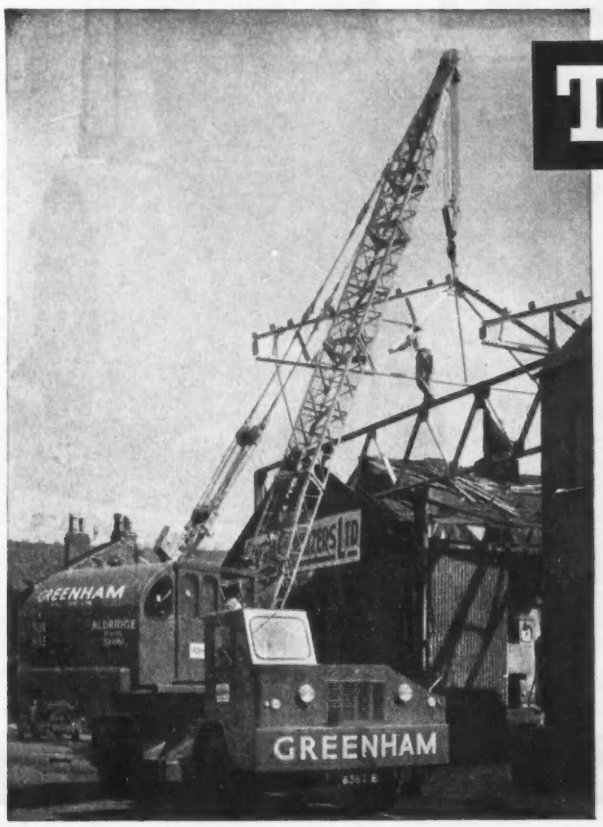
Paddington.—Supply of following, for B.C.: Two S.D. freighters:—Shelvoke and Drewry, Ltd., Letchworth, Herts., £7,050; one 11/14 cu. yd. barrier loader, fitted with diesel engine:—Glover, Webb and Liversidge, Ltd., 561 Old Kent Road, London, S.E.1, £1,500 (both recommended).

Peterborough.—Supply of two Dennis Paxit Major II refuse collection vehicles and one Fordson lorry, for City Council — Dennis Bros., Ltd., Guildford, £3,250 each, and Peterborough Motors, Ltd., Peterborough £890, respectively (recommended).

St. Albans, Herts.—Supply of six Paxit Major II compressor vehicles, for City Council:—Dennis Bros., Ltd., Guildford, Surrey, £19,290 (recommended).

Sheffield.—Supply of following, for City Council: One electric overhead crane for Blackburn Meadows reconstruction and extension scheme:—Street Crane Co., Ltd., 36 Spring Street, Sheffield, 3, estimated cost £1,168; one Thames Trader 4-ton lorry, less an allowance of £140 in respect of one old Commer van taken in part exchange:—Brook Shaw, Ltd., 195 Norfolk Street, Sheffield, 1, estimated cost £1,166 (all recommended).

Southwark.—Supply of S.D. "W" freighter, 6-ton chassis with 16/18 cu. yd. fore-and-aft tipping body and diesel engine, and an S.D. "W" freighter, with 16/18 cu. yd. container



T124 *at work*

The illustration shows one of a fleet of ALLEN truck-mounted cranes recently supplied to Greenham (Plant Hire) Ltd., of Aldridge, Staffs. It is being used to erect a new building over the top of an existing building.

The total weight of steelwork involved was over 60 tons, and the largest pieces were some 60ft. long.

The T.124 handled the job so easily that production in the existing workshops carried on without interruption.

There is a full range of ALLEN truck-mounted cranes. Full particulars will gladly be sent by the manufacturers.

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body and diesel engine, for B.C.:—Shelvoke and Drewry, Ltd., Letchworth, Herts., £2,580 and £3,155, respectively (recommended).

Weymouth, Dorset. — Supply of one Bedford/Eagle gully and cesspool emptier, one Bedford 3-ton tipper, one Bedford 3-ton truck with Burtonwood hydraulic tail lift, one Bedford/Gibson refuse collecting vehicle, and one Bedford 15cwt. van, for B.C.:—Lee Motors, Ltd., 674-680 Wimborne Road, Winton, Bournemouth, Hants, £2,903, £1,182, £1,302, £2,658 and £415, respectively (recommended).

Worcester.—Supply of a Land-Rover, for City Council: W. L. Cotton, 41 Foregate Street, Worcester, £633 recommended).

PLAYING FIELDS, PARKS, ETC.

Camberwell.—Layout of proposed civilian war dead memorial garden at the New Cemetery, for B.C.:—Knowles and Weller, Ltd., Tennison Road, London, S.E.25, £1,728 (recommended).

Kingston-upon-Thames, Surrey. — Construction of running track at Norbiton Sports Ground, for B.C.:—Maxwell M. Hart (London), Ltd., 248 Beulah Hill, London, S.E.19, £6,575 (recommended).

London.—Construction of a flower display area adjacent to the Crematorium at the City of London Cemetery, for City of London Corporation:—Mowlem (Civil Engineering), Ltd., 91 Ebury Bridge Road, London, S.W.1, £3,167 (recommended); W. and C. French, Ltd., £3,412; Howard Farrow, Ltd., £3,460; Wm. F. Rees, Ltd., £3,505; Fitzpatrick and Son (Contractors), Ltd., £3,551.

Manchester. — Layout of playing fields at Ryder Brow Secondary School, for City Council:—Greenfields Nurseries, Ltd., Bedells Lane, Wilmslow, Ches. (recommended).

Oxford.—Landscaping Cowley Road Hospital frontage, phase 2, for City Council: Garden Maintenance and Co. (Guildford), Ltd., 8 Manor Gardens, Guildford, £2,039 (recommended).

Portsmouth.—Layout of the site and the preparation of playing fields at the new Court Lane Modern School at Grove Road, Drayton, for E.C.:—G. S. Daniels, 387 Winchester Road, Southampton, £7,046.

Salford, Lancs.—Extension of playground at North Salford Secondary Modern Boys' School and development of playing fields for St. Lawrence R.C. Secondary Modern School, for City Council:—Wilson and Wilkinson, Ltd., 102 Bolton Road, Manchester, 6, £2,312, and Clapham's Nurseries, Ltd., Bramhall Lane, Bramhall, Stockport, Ches., £4,525 (both recommended, subject to M.E. approval).

Sheffield.—Following works, for City Council: Landscaping works for development within area 14 at the Gleadless Valley housing estate:—Direct Labour (recommended, subject to Ministry approval). Estimated cost £3,549.

Laying out playing fields at East Hill School:—J. W. Horton (Sportsgrounds), Ltd., 30-34 Denby Street, Sheffield, 2, £2,099 (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed: Eastern Region:

Renewal of fencing alongside running lines in the King's Cross and Sheffield districts—Escay Fencing Contractors, Ltd., 45 Windsor Road, Enfield, Middx.

Construction of new platform buildings, sundry alterations to existing buildings, resurfacing of station forecourt and patent glazing to section of station roof at Grimsby Town Station—Charles R. Price, Barnsley Road, Doncaster.

Supply and erection of electric lighting installation at Liverpool Street Station——Clough, Smith and Co., Ltd., Stephenson Way, Crawley, Sussex.

Demolition of station buildings, construction of new station buildings and bicycle store, building of dwarf retaining walls, formation of graded slopes, provision of concrete external staircase to goods offices, repairs and redecorations to waiting room on downside platform, at Purfleet—Kirk and Kirk, Ltd., Atlas Works, Putney, S.W.15.

Supply and erection of electric lighting installations at Enfield Town and Chingford—James Kilpatrick and Son, Ltd., 164-168 Westminster Bridge Road, London, S.E.1.

Alterations to steam locomotive shed to form new maintenance shop for diesel shunting locomotives and the construction of new pump house, stands for oil storage tanks, oil interceptor, fuelling point at Retford Motive Power Depot—Derek Crouch (Contractors), Ltd., The Lawns, Eye, Peterborough.

Reconstruction of superstructure and strengthening of abutments of Underline Bridge, No. 68, over Sykes Lane, between Saxilby and Stow Park—W. and C. French, Ltd., South Brink, Wisbech.

Minor repairs to buildings and structures in Zone D of Doncaster Plant Works—Charles R. Price, Barnsley Road, Doncaster, Yorks.

Construction of staff accommodation building and ancillary works at Carriage Servicing Depot at Shoeburyness—T. J. Evers, Ltd., New Road, Tiptree, Colchester, Essex.

ROADS, BRIDGES AND SITE WORKS

Adwick-le-Street, Yorks.—Laying out road, lawns and boundary fences, etc., in connection with the extension of Red House Lane Cemetery, for U.D.C. W. S. Ellis, engineer and surveyor: J. Dickinson and Sons (Emley), Ltd., Watch House Lane, Doncaster. Work commenced.

Aylesbury, Bucks.—Construction of foul and surface water sewers, reinforced concrete and hardcore, with hot rolled asphalt surfaced carriageways, together with footways and ancillary works, on Oakfield housing site, comprising 20½ acres, for B.C. G. B. Hannay, borough engineer: Frain Bros. (London), Ltd., London, N.W.9, £76,535. Work about to commence.

Ayrshire.—Construction of the approaches to the new bridge over the River Ayr at Howford, on the Dumfries-Kilmarnock trunk road, A.76, for the Scottish Home Department. F. A. MacDonald and Partners, consulting engineers, 11 Woodside Terrace, Glasgow, C.3:—A. M. Carmichael, Ltd., 9 Ainslie Place, Edinburgh, 3, £61,301.

Barking, Essex. — Following works, for B.C.: Reconstruction of Ripple Road, A.123:—The Mowlem Paving Co., Ltd., 19 Grosvenor Place, London, S.W.1, £12,249; resurfacing of six hard tennis courts at Barking and Mayesbrook Parks:—W. H. Gaze and Sons, Ltd., 19-23 High Street, Kingston-upon-Thames, Surrey, £2,737 (recommended).

Basingstoke, Hants. — Construction of roads and sewers at South Ham housing site, 33rd

A NATIONAL ROAD ROLLING SERVICE

instalment, for B.C.:—Goodall, Barnard and Clayton, Ltd., Worting Road, Basingstoke, £12,180 (recommended, subject to Ministry approval).

Making-up Cavalier Road, Basing, for R.D.C.:—Foster Bros. (Hook), Ltd., Hook Common, Hook, £2,286.

Bexley, Kent. — Improvement of Wickham Street, between Bellegrove Road and the Green Man, for B.C.:—Direct Labour (recommended). Estimated cost £17,640.

Bicester, Oxon.—Construction of roads, sewers and footpaths, new estate, off Widdington Road, for C. and W. Montague, Ltd., 69 Dundale Road, Tring, Herts.:—Farmiloe and McVie, Ltd., 10 High Street, Welwyn, Herts.

Blackpool, Lancs.—Construction of a 120ft. diameter roundabout at the junction of St. Walburga's Road and Newton Drive (B5266), for B.C., comprising excavation, road foundations, kerbing, flagging, surfacing and incidental works. Arthur Hamilton, borough surveyor: H. F. Fox and Co. (Contractors), Ltd., Holyoake Avenue, Blackpool, £11,571.

Bodmin, Corn.—Site works for 18 bungalows at Trelawney Road, for B.C.:—Direct Labour, £1,262 (recommended, subject to Ministry approval).

Braintree and Bocking, Essex.—Reconstruction of Victoria Street, for U.D.C.:—Drybrook Quarries, Ltd., 106 Gold Street, Wellingborough, Northants, £8,422.

Brighton, Sussex. — Construction of a new bridge to replace Dyke Road Drive Bridge, for B.C.:—Gaffin and Co., Ltd., 25 Craven Street, London, W.C.2, £107,418 (recommended); Aubrey Watson, Ltd., £109,369; The Butterley Co., Ltd., £109,649; The Cleveland Bridge and Engineering Co., Ltd., £114,788; Lomount Construction Co., Ltd., £116,045; Horseley Bridge and Thomas Piggott, Ltd., £118,143; Tarslag, Ltd., £118,898; The Cementation Co., Ltd., £123,223; Mears Bros. (Contractors), £136,867.

Bromley, Kent.—Making-up Walden Road, for B.C.:—Mannion Bros., Ltd., Harrow, £9,562 (recommended).

Cardiff.—Correction.—Improvement of Pwllmelin Road, stage 2, for City Council: T. Gallagher and Sons, Ltd., 4 Oaklands Drive, Bridgend, Glam., £25,327.

Caterham and Warlingham, Surrey.—Private street works, Woodlands Way, for U.D.C. L. V. Gordon, engineer and surveyor: Sugrue, Ltd., London, N.W.6, £2,995 (accepted); R. Saville, Ltd., £3,818; Mears Bros. (Contractors), Ltd., £3,445; Austin Shrives, Ltd., £3,552; P. Lavelle, Ltd., £4,160; Waywarden, Ltd., £3,457.

Chelmsford, Essex.—Improvement of Springfield Green, for B.C.:—H. V. Smith and Co., Ltd., Walkden House, 3-10 Melton Street, London, N.W.1, £1,748 (recommended).

Cheshunt, Herts. — Following works, for U.D.C. A. A. Hamilton, engineer: Widening and realigning of approx. 400yd. of Goff's Lane (B.156), including the provision of 170yd. of 12in. dia. sewers and all necessary ancillary works:—Kelmack (Civil Engineers), Ltd., Grove Road, Hitchin, Herts., £11,274 (accepted); C. H. Linton, Ltd., £12,393; Balls and Partners, £11,458; Scott Hale (Contractors), Ltd., £13,867; Geo. Skinner and Sons, Ltd., £15,266; John Sugrue and Sons, Ltd., £14,385; L. W. Bryant and Co., £11,627.

Widening and lighting 210 lin. yd. of Mill Lane, including all necessary ancillary works:—L. W. Bryant and Co., 12 Park View Gardens, Grays, Essex, £5,173 (accepted); Balls and Partners, Ltd., £5,596; C. H. Linton, Ltd., £6,023; G. Skinner and Sons, Ltd., £7,635; Scott Hale (Contractors), Ltd., £7,713; John Sugrue and Sons, Ltd., £7,874.

East Suffolk.—Construction of reinforced concrete subway under the trunk road near Kesgrave School, contract 25, for C.C. J. B. Lund, county surveyor: May Gurney and Co., Ltd., Trowse, Norwich.

Flintshire. — Construction of a three-span bridge over the River Dee and a 1¾ mile road to by-pass the village of Queensferry, for C.C. E. W. W. Richards, county surveyor:—John Howard and Co., Ltd., 13 Buckingham Gate, London, S.W.1, £695,337. Work to commence August.

Fulham. — Construction of a playground and car park at Lancaster Court, for B.C.:—F. W. P. Dyett, £4,970 (recommended).

Grantham, Lincs.—Construction of the second phase of roads and sewers at Earlsfield estate, for B.C.:—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £16,368, and Direct Labour, £2,766 (recommended, subject to Ministry approval).

Hampstead.—Resurfacing of Heath Street, for B.C.:—Amalgamated Asphalte Companies, Ltd., Palace Street, London, S.W.1, £1,549 (recommended).

Haslingden, Lancs. — Flagging and ancillary works to 82 houses on the Longshoot housing estate, for B.C.: Tester Bros., Rawtenstall (recommended).

Hendon, Middx.—Construction of a pedestrian subway on Watford Way at junction with Hartley Avenue, for C.C.: W. Old, Ltd., 433 Pinner Road, Harrow. £20,821 (recommended).

Hereford.—Improvement of Old Eign Hill and section 1 of Folly Lane, for City Council: Asphalt and Public Works, Ltd., 36 The Tything, Worcester, £7,512, and W. Bengry and Sons, Longmoor, near Leominster, £9,871, respectively (recommended).

Ilkeston, Derbys.—Construction of roads and sewers (scheme 38) Kirk Hallam estate 2, for B.C.:—Fitzgerald, Hanlon and Co., Ltd., 8a Castle Chambers, 5 Houndsgate, Nottingham, £7,774 (recommended, subject to Ministry approval).

Ilford, Essex. — Following works, for B.C.: Construction of car park at Balfour Road:—Norman Hill Plant Hire, 174 Twickenham Road, Isleworth, Middx., £6,523 (recommended, in lieu of previous tender).

Construction of vehicular footway crossings to residential premises:—Ruddock and Meighan, Ltd., Burford House, Harrow View, Wealdstone, Middx. (recommended).

Ipswich, Suffolk.—Repair and resurfacing of drives and pathways in Alexandra, Gippeswyk and Bourne Parks, for B.C.: Direct Labour. Estimated cost £2,000.

Kincardineshire. — Brechin - Laurencekirk - Stonehaven Road, route A.94, improvement from Fiddes to Clochnahill, approximately five miles south-west of Stonehaven, for C.C. Eric J. A. Moir, county road surveyor:—William Briggs and Sons, Ltd., East Camperdown Street, Dundee, £37,547 (accepted); John McAdam and Sons, £39,007; Laird Bros., £41,091; Lewis Middleton, Ltd., £42,582; Geo. Wimpey and Co., Ltd., £43,576; McKean and Co., £45,056; Charles Gray, Ltd., £45,855; William Tawse, Ltd., £47,005; James Leith, Junr., Ltd., £47,836.

Kingston-upon-Thames, Surrey. — Extending the existing Bittoms car park and the provision of a car park in Anglesea Road, for B.C.:—Henry Bros., Feltham Road, Ashford, Middx., £1,836 (recommended).

Lambeth. — Re-paving old York stone footways at various streets, for B.C.:—London Paving Co., Ltd., 21 Aylmer Parade, London, N.2, £16,430 (recommended).

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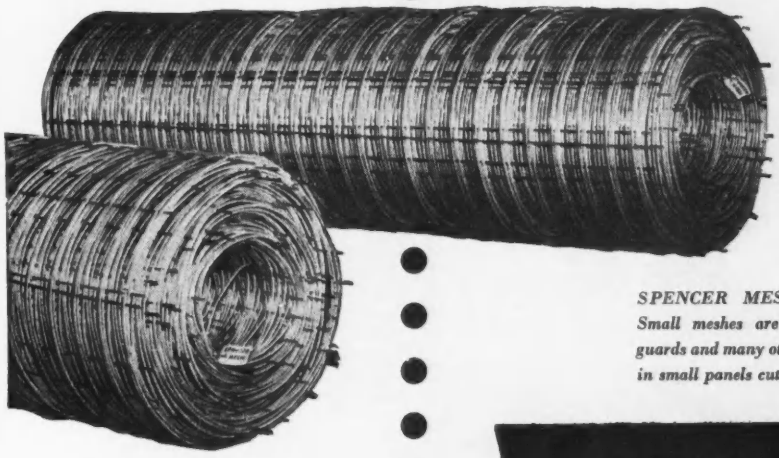

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Leeds.—Following works, for City Council: Private street works: Queensthorpe Close:—Leake and Carney, Ltd., 11 Holmfield Lane, Wakfield, £840; Staithe Gardens:—Benstead Industries, Ltd., Isle Lane, Leeds, 11, £444.

Housing estate works: Raynville Road estate:—Leake and Carney, Ltd., £44,372 (all recommended).

Leyton, Essex. — Site works for proposed youth centre at Davies Lane, for B.C.: J. and J. Dean, Ltd., Ruckholt Works, Ruckholt Close, London, E.10, £2,140 (recommended).

Liverpool. — Following works, for City Council: Supply and spraying of hot tar or bitumen on highway surfaces within the city, as and when required—R. S. Clare and Co., Ltd., 8 Stanhope Street, Liverpool, 8, price per gallon—hot tar, 1s. 5¾d.; cut-back bitumen, 1s. 9d.; tar plus 10 per cent. bitumen, 1s. 6¾d.; Bitarco 1s. 6¾d.

Construction of an access road and drains on the Kirkby estate and construction of access roads and sewers at Higher Lane/Long Lane/Lower Lane (phase 2): Geo. Wright (Liverpool), Ltd., 17 Laurel Road, Liverpool, 7, £2,882 and £9,652 (all recommended).

London.—Following, for City of London Corporation: Re-paving of the carriageway of Lower Thames Street, from Pudding Lane to west side of Fish Street Hill:—William F. Rees, Ltd., 54 Victoria Street, London, S.W.1, £9,246 (recommended); Fitzpatrick and Son (Contractors), Ltd., £9,384; Mowlem (Civil Engineering), Ltd., £9,676; Howard Farrow, Ltd., £10,090; annual road maintenance at City of London Cemetery:—Mowlem Paving Co., Ltd., 19 Grosvenor Place, S.W.1, £1,094 (recommended); Situsec, Ltd., £1,163; Fitzpatrick and Son (Contractors), Ltd., £1,173; Limmer and Trinidad Lake Asphalt, Ltd., £1,293; W. and C. French, Ltd., £1,333.

Long Eaton, Derbys.—Following, for U.D.C.: (a) surface dressing of 72,000 sq. yd. of carriageways; (b) supply of three metal kerbside bus shelters. Francis Turner, engineer and surveyor: (a) A. M. Tweedie and Co., Ltd., 44-52 Bilbao Street, Glasgow, 5, £2,639, and (b) Abacus, Engineering, Ltd., Russell Chambers, King Street, Nottingham, £158 each.

Maidenhead, Berks. — Making-up Sperling Road, for B.C.:—Charles Prior and Son, Braywick, Maidenhead, £2,751 (recommended).

Manchester. — Following works, for City Council: Supply and laying of Skimcoat asphalt carpeting materials:—Val de Travers Asphalte, Ltd., Salford; bulk excavation and soil stripping work for construction of roads and sewers at Wilmslow overspill site:—S. L. Robinson, Ltd., Stanley Road, Cheadle Hulme (both recommended).

Merthyr Tydfil, Glam.—Construction of a new bridge across the River Taff at Ynysgau, for B.C.: Davies, Middleton and Davies, Ltd., Cardiff, £37,385.

Norwich. — (a) Improvements to Bethel Street between St. Gile's and Little Bethel Streets, and (b) the Hall Road/Lakenham Road roundabout, and (c) widening the carriageways in Coleman Road between Earlham and George Borrow Roads, for City Council: Direct Labour (recommended) Estimated cost (a) £2,500, (b) £11,000 and (c) £9,896.

Ormskirk, Lancs.—Construction of roads and sewers on the Green Lane housing site, for U.D.C.:—Charles L. Warren, Ltd., 78 St. Pauls Road, Wallasey, Ches., £5,205. Work commencing August.

Oxford. — Resurfacing of school playgrounds, etc., for City Council: Davis Watson and Elliots, Ltd., Windmill Road, Aldershot, £2,406 (recommended).

Peterborough. — Following work, for City Council: Fulbridge Road improvement scheme—H. J. Firman, Ltd., Flag Fen, Newark Road, Peterborough, £25,889; carriageway surface dressing works, 1960-61: Bristowes Tarvia, Ltd., Dysart Road, Grantham, £2,519 (recommended).

St. Albans, Herts. — Construction of a temporary car park at Wellington Court, for City Council:—A. H. Nicholls and Sons, Ltd., Hoddesdon, £1,698 (recommended).

St. Marylebone. — Reconstruction of the carriageway and footway at Frampton Street, from Fisherton Street to Lisson Grove, for B.C.:—John Mowlem and Co., Ltd., 91 Ebury Bridge Road, London, S.W.1, £6,743 (recommended).

Sheffield.—Following works, for City Council: Road and sewer works within area 14 of the Gleadless Valley housing estate and within area 4 of the Netherthorpe redevelopment area (Bramwell Street, Fawcett Street, Hammond Street, etc.):—Direct Labour, £66,438 and £28,806, respectively (recommended, subject to Ministry approval).

Construction of realigned portion of Rockingham Street, together with new sewer beneath it:—Direct Labour (recommended). Estimated cost £3,570.

Somerset. — Bath-Lincoln trunk road, A.46, improvement Butcher's Wood-Swainswick, for C.C. J. H. H. Wilkes, county surveyor:—Wadsworth (Demolition and Excavation), Ltd., Sidmouth Road, Exeter, Devon.

Sunbury-on-Thames, Middx.—Making-up of Ashbridge Way (part), Beechwood Avenue (part) and The Vale, for U.D.C.:—W. H. Gaze and Son, Ltd., 139 Roehampton Vale, S.W.15, £3,184. Work commenced.

Sunderland, Dur. — Construction of footpaths on the Town End Farm estate, for B.C. T. Donkin, borough engineer:—Smith Bros., Houghton-le-Spring, Co. Durham, £21,012.

Westminster. — Raising the swing bridge at Grosvenor Dock, renewing the deck timbering and reinstatement of the bridge, for City Council:—Joseph Westwood and Co., Ltd., Napier Yard, London, E.14, £1,625 (recommended).

Whitley Bay, Northumb.—Road reconstruction schemes for B.C. E. Roberts, borough engineer:—Tarslag, Ltd., Bowesfield Lane, Stockton-on-Tees, £12,353.

Worcestershire.—Widening of the trunk road, A.38, from Spring Pools to Chadwich reservoir to provide a modern link between the northern end of the Bristol-Birmingham Motorway at Lydiate Ash and the outskirts of Birmingham, for Ministry of Transport. W. R. Thomson, county surveyor:—A. Monk and Co., Ltd., Padgate, Warrington. Estimated cost £125,000.

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Worcester.—Construction of site works and access roadways for 132 garages at Warndon estate and Bromwich Road, for City Council: J. J. McGuire and Co., 61 Boldmere Road, Sutton Coldfield, £13,658 (recommended, subject to Ministry approval).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Ballymena, Antrim.—Construction of Galgorm-Gracehill sewerage scheme, for R.D.C.:—Ballymena Construction Co., Ltd., Montague Avenue, Ballymena, £55,799 (recommended).

Brecknock.—Sewerage scheme, village of Cradoc, for R.D.C., including the laying of 172 lin. yd. of 6in. diameter stoneware pipe sewer and including manholes and other appurtenant works together with a sewage disposal works comprising settling tank and rotary filter. W. J. Rees, surveyor:—T. F. Howells, Ltd., 83 Bartlett Street, Caerphilly, Glam., £2,031 (accepted); D.M.D., Ltd., £2,674.

Cardiff.—Construction of surface water relief sewer at Colchester Avenue, for City Council:—Direct Labour, £4,107 (recommended).

Colchester, Essex. — Construction of foul sewer, new estate at Dilbridge Hall, for Lawson and Co. 40 Brook Street, London W.1:—Farmiloe and McVie, Ltd., 10 High Street, Welywn, Herts.

Devizes, Wilts.—Easterton, Market Lavington and West Lavington sewerage and sewage disposal scheme, stage 2, for R.D.C., comprising the construction of about 6,400 lin. yd. of 9in. and 6in. sewers and extension to Woodbridge sewage disposal works at West Lavington. Harvey, McGill and Hayes, consulting engineers, 38 Market Place, Chippenham:—Nott Brodie, Ltd., Bristol, £43,922. Work commencing August.

Eton, Bucks.—Construction of an automatic electrical sewage pumping installation, together with 23 foul water manholes on existing sewers, and appurtenant works, for U.D.C. R. E. Terry, surveyor:—James Longley and Co., Ltd., Crawley, Sussex, £8,846. Work about to commence.

Hatfield, Herts.—Construction of the Brookside estate relief sewer, for R.D.C. W. J. Davies, engineer and surveyor: — Sullivan Construction Co., Ltd., 15 Fitzjohn Avenue, Barnet, Herts., £861.

Hunstanton, Norfolk.—Laying of approximately 540yd. of concrete surface water sewer, of varying diameter up to 24in., and the construction of 10 manholes in St. Mary's Ward, for U.D.C. Scott and Wilson Kirkpatrick and Partners, consulting engineers, 47 Victoria Street, London, S.W.1:—J. L. Kier, Ltd., Setch, King's Lynn, Norfolk, £5,831.

Kelso, Roxburghs.—Construction of sewage purification works, together with all incidental piping and roadwork, for B.C. Crouch and Hogg, consulting engineers, 18 Woodside Crescent, Glasgow:—Richard Baillie, Ltd., Haddington, East Lothian, £73,609.

Leeds.—Repairs to sewage distributor runways at Knostrop sewage disposal works, for City Council:—Fred Whitaker and Co., Ltd., Osmondthorpe Lane, Leeds, 9, £10,112 (recommended).

Leyton, Essex.—Supply of (a) pumping equipment and control gear, and (b) electrically operated penstocks required in connection with the reconstruction of the pumping station, for B.C.: (a) Gwynnes (Pumps), Ltd., Chancellor's Road, Hammersmith, W.6, £8,877, and (b) Ames Crosta Mills and Co., Ltd., Abbey House, Victoria Street, London, S.W.1, £2,969 (recommended).

Liverpool.—Supply and erection at South Sewage Disposal Works of a reciprocating sludge pump and its auxiliary equipment, for City Council:—Tangyes, Ltd., Cornwall Iron Works, Smethwick, Birmingham, £3,706 (recommended).

Llanelly and Llandeilo, Carms.—Tycroes and Capel Hendre joint sewerage scheme, for R.D.C.s, including the construction of approximately 3,200yd. of 6in., 9in., 12in. and 15in. diameter sewers, together with manholes, sewage pumping station and 6in. diameter ring main. R. C. Jones, engineer: Glyn Griffiths, Holloway, Kidwelly, Carms., £16,929 (accepted); Arnold Construction Co., Ltd., £17,262; Williams Bros., £18,494; Robert M. Douglas, Ltd., £19,019; J. and P. Zammit, Ltd., £19,325; Martin Tracey, £20,135; Rees and Kirby, Ltd., £21,713; Glyn Davies, Kidwelly, Ltd., £24,316; Parker Bros., £31,740. Work to commence end of month.

London.—Following, for City of London Corporation: Alterations to sewers, etc., at Ave Maria Lane:—D. R. Paterson, Ltd., 33 Granville Road, London, N.W.2, £6,508 (recommended); Mowlem (Civil Engineering), Ltd., £6,641; W. and C. French, Ltd., £6,729; Wm. F. Rees, Ltd., £6,765; Howard Farrow, Ltd., £6,858; reconstruction of the King's Arms Yard sewer, between Moorgate and Coleman Street:—D. R. Paterson, Ltd., £5,433 (recommended); W. and C. French, Ltd., £5,499; Mowlem (Civil Engineering), Ltd., £5,577; Howard Farrow, Ltd., £5,591; Wm. F. Rees, Ltd., £5,657; repair of Shoe Lane sewer, from Plumtree Court to Holborn Viaduct:—D. R. Paterson, Ltd., £2,500 (recommended).

Manchester.—Culverting of a short length of Clayton Brook in connection with development of land near Sexa Street, Openshaw, for City Council:—Conduit Construction Co., Ltd., 3 Greenheys Lane, Manchester, 15 (recommended).

Newcastle upon Tyne.—Sewer works in connection with Shieldfield redevelopment, for City Council:—Direct Labour, £2,660 (recommended).

Sheffield. — Following for the Blackburn Meadows reconstruction and extension scheme, for City Council: Two axial flow pumps:—Gwynnes Pumps, Ltd., 9 Adel Park Gardens, Leeds, 16, estimated cost £2,497; supply and installation of meters and control gear:—George Kent, Ltd., 52 Twentywell Road, Dore, Sheffield, £9,605 (both recommended).

Sunderland, Dur. — Laying 125yd. of sewers and ancillary works at Ashbrooke Range, for the B.C.:—Direct Labour, £2,294.

West Bromwich, Staffs.—Supply and installation of a Meader pump complete with switchgear, etc., at the sewage works, for B.C.: Henry Balfour and Co., Ltd., Artillery House, Artillery Row, London, W.1, £2,905 (recommended).

Woolwich. — Provision of sewer linkage in heading from Samuel Street to Frances Street, for B.C.:—J. E. Billings and Co., Ltd., 54 Beddington Lane, Croydon, Surrey, £3,014 (recommended).

Worthing, Sussex.—East Worthing sewage works extension, contract 1, pumping station and Teville stream diversion, for B.C.:—J. T. Mackley, Ltd., 29 High Street, Shoreham-by-Sea, £51,631 (recommended).

STREET LIGHTING

Barking, Essex. — Improvements to the street lighting on the trunk road A.13 from the East Ham boundary to the eastern approach to the railway bridge, for B.C.:—A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, £5,917 (recommended).

Camberwell.—Painting 1,056 columns, for B.C.:—Abacus Engineering, Ltd., Russell Chambers, King Street, Nottingham.

Cardiff. — Bulk supply of the following for 1960-61 programme, for City Council:—60-W sodium lanterns including gear and 140-W sodium lanterns including gear:—G.E.C., Ltd., Magnet House, Kingsway, Cardiff, £9 and £11 each, respectively; type KMK II moulded box time-switches in clear moulded cover:—Horstmann Gear Co., Ltd., 93 Newbridge Road, Bath, £3 each: (a) class A concrete columns with an outreach of 2ft., (b) class B swan-type small base columns, and (c) class B post top columns:—Stanton Ironworks, Ltd., near Nottingham, (a) £19 each, (b) and (c) £9 each, respectively (recommended).

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Ipswich, Suffolk.—Provision of sodium lighting in parts of London, Wherstead, Bramford, Hatfield, Belstead and Rushmere Roads, for B.C.: Erection of column and provision and erection of electrical equipment—Bagshaws Contractors, Ltd., Huddersfield, £3,351; street lighting columns—Stewarts and Lloyds, Ltd., London, E.C.2, £1,552; concrete columns—Stanton Ironworks Co., Ltd., near Nottingham, £592; service connections and dismantling existing units—Eastern Electricity Board, £1,824.

Lambeth.—Supply of 116 steel columns for relighting scheme at Norwood Road, Knight's Hill and Sutton Walk, for B.C.: Stewarts and Lloyds, Ltd., Glasgow and Birmingham, £2,021 (recommended).

Lambeth. — Erection of 116 group A steel columns, complete with lanterns and gear, and removal of 70 redundant columns, for B.C.:—Abacus Engineering, Ltd., Russell Chambers, King Street, Nottingham.

Manchester.—Supply of concrete street lighting columns, for City Council:—Concrete Utilities, Ltd., Manchester (recommended).

Norwich.—Supply of steel columns, lanterns, lamps and control gear for lighting a section of Salhouse Road, for City Council: Atlas Lighting, Ltd., Thorn House, Upper St. Martin's Lane, London, W.C.2, £707 (recommended).

Nottingham. — Supply of (a) 310 group A and 70 group B sodium lanterns and equipment, and (b) 600 group B lanterns, for City Council: (a) G.E.C., Ltd., 25 Stoney Street, Nottingham, and (b) Wardle Engineering Co., Ltd., 51 Grainger Street, Newcastle upon Tyne, 1 (recommended).

Rothwell, Yorks.—Provision and erection of 494 45-watt group B lighting units, with reinforced or prestressed concrete columns, for U.D.C.:—Midland & Lighting and Building, Ltd., Cumberland Chambers, Church Gate, Loughborough, Leics., £11,015.

Rowley Regis, Staffs.—1960-61 street lighting programme, for B.C.: Revo Electric Co., Ltd., Tipton, Staffs. £18,482 (recommended).

St. Albans, Herts.—Provision of group A street lighting at Park Street, for City Council:—Cohen Bros. (Electrical) Ltd., Electric House, 11 King Edward Buildings, Bury Old Road, Manchester, £2,565 (recommended).

GOVERNMENT CONTRACTS

Air Ministry.—Contracts to the value of £500 or over for the week ended July 1:

Building work: Wyton, Hunts.:—A. J. G. Potter and Sons, Ltd., Stanwick, Wellingborough, Northants.; London Airport, Hounslow, Middx.:—J. Lawson and Co., 28 Park Road North, Acton, London, W.3; Finningley, Yorks.:—Frank Haslam, Milan and Co., Ltd., Regent Chambers, Hall Cross, Doncaster, Yorks.

Civil engineering: Wattisham, Suffolk:—Constructex, Ltd., Oyster Lane, Byfleet, Surrey.

Artificers' work: Alconbury, Hunts.:—Robert Marriot, Ltd., Midland Works, Rushden, Northants.

Installations boiler house (renewal of): Northolt, Middx.:—W. G. Cannon and Sons, Ltd., 38a, St. George's Drive, Buckingham Palace Road, Westminster, London, S.W.1.

Metropolitan Police.—Recent contracts placed include:

External painting and repairs: Girton Avenue and Sandhurst Road, N.W.9:—V. G. Clements, Ltd., £713.

External painting and repairs: Newark Way, Sherrock Gardens and Booth Road, Hendon:—V. G. Clements, Ltd., £790.

External painting: Abbotshall Avenue, Morton Way and Waterfall Road, Southgate, N.14:—A. Munn and Sons, £1,740.

External painting: Drayton Road and Fortune Gate Road, N.W.10:—J. H. and W. Heal, Ltd., £533.

Internal redecorations: Edmonton Police Station:—J. H. and W. Heal, Ltd., £530.

External painting and internal redecoration: Albert Court, Londen Court, Augustus Court, Wimbledon, S.W.19:—Allard and Saunders, Ltd., £5,032.

Ministry of Works.—Contracts placed for week ended June 25, 1960:

Berkshire: Broadmoor Institution, Crowthorne — rebuilding boundary walls:—Goodall, Barnard and Clayton, Ltd., 61 Worthing Road, Basingstoke, Hants.

Glamorgan: Post Office, Porth Street, Porth—erection of telephone exchange:—H. Ringham (Builders and Contractors), Ltd., Coldbrook Road, Cadoxton, Barry.

Hertfordshire: Harpenden—erection of telephone exchange:—C. Miskin and Sons, Ltd., Romeland House, St. Albans.

Lancashire: Layton, Blackpool — completion of telephone exchange:—Thos. Croft and Sons, Ltd., Holme Slack Works, Preston.

London: Joint Office Building, Victory House, Kingsway, W.C.2—erection of two passenger lifts:—Otis Elevator Co., Ltd., Falmouth Road, S.E.1; Royal Courts of Justice, W.C.2—demolition work:—London Demolition Co., Ltd., 575 London Road, Isleworth, Middx.

Surrey: Royal Botanic Gardens, Kew—repairing river bank:—W. J. Southgate, 65 Kenway Road, London, S.W.5.

Yorkshire: Government Buildings, Lawnswood, Leeds — re-covering flat roof:—Northern Asphalt and Roofing Works Co., Ltd., Cardigan Road, Leeds, 6.

Post Office.—Contracts for duct laying, etc., works to the value of £4,000 and over placed during the week ended July 2:

Herbert Ashley, Sheepbridge Lane, Mansfield, Notts.; P. J. Byrnes, 168 St. Michaels Hill, Cotham, Bristol, 2; C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; W. A. Gale, Ltd., 48 Ruthven Road, Litherland, Liverpool, 21; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; P. J. Parrott and Co., Ltd., Main Street, Methley, Leeds, Yorkshire; Peter Prendergast, Ltd., 47 High Street, Wolstanton, Newcastle, Staffs.; David Stewart and Sons, 5 Main Street, Luthermuir, Laurencekirk, Kincardineshire.

War Department. — Contracts placed for the week ended June 24, 1960:

Co. Antrim: Lisburn — painting and decorating:—James Garvey and Co., Ltd., Belfast.

Essex: Colchester — roadwork:—H. V. Smith and Co., Ltd., London, N.W.1.

Hampshire: Blackdown—building:—E. J. Logan (Putney). Ltd., London, S.W.15.

Kent: West Kent—painting and decorating:—George Jones and Son (Contractors), Ltd., London, W.8.

Nottinghamshire: Chilwell — building:—W. H. Herries, Ltd., Colwick.

Wiltshire: Devizes — painting:—M. A. Appleton (Contractors), Ltd., Wolverhampton; building:—T. Holdoway and Sons, Ltd., Westbury.

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This rail mounted 150' Box Girder was used to place up to 450 tons of filter media per day. This novel system for placing 24,000 cubic yards of media was used by Norwest Construction Co. Ltd., on the Altrincham Sewerage Disposal Works.

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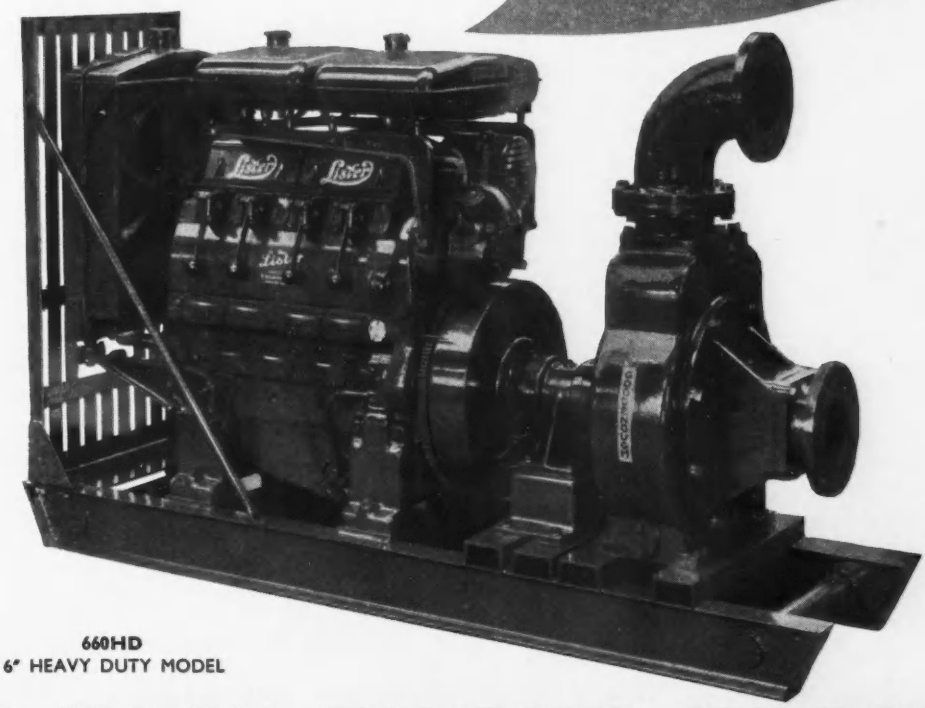

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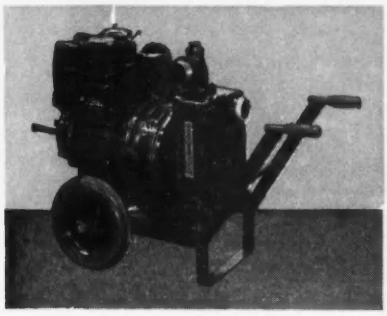
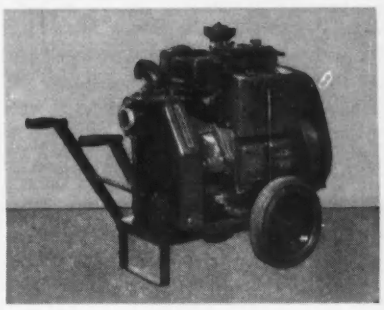
6" HEAVY DUTY MODEL

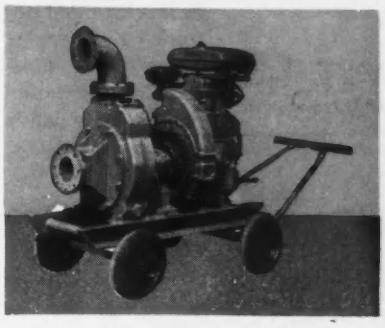
FOR EVERY PUMPING PURPOSE...



315LD
3" LIGHT-WEIGHT MODEL



103
4" HEAVY DUTY MODEL



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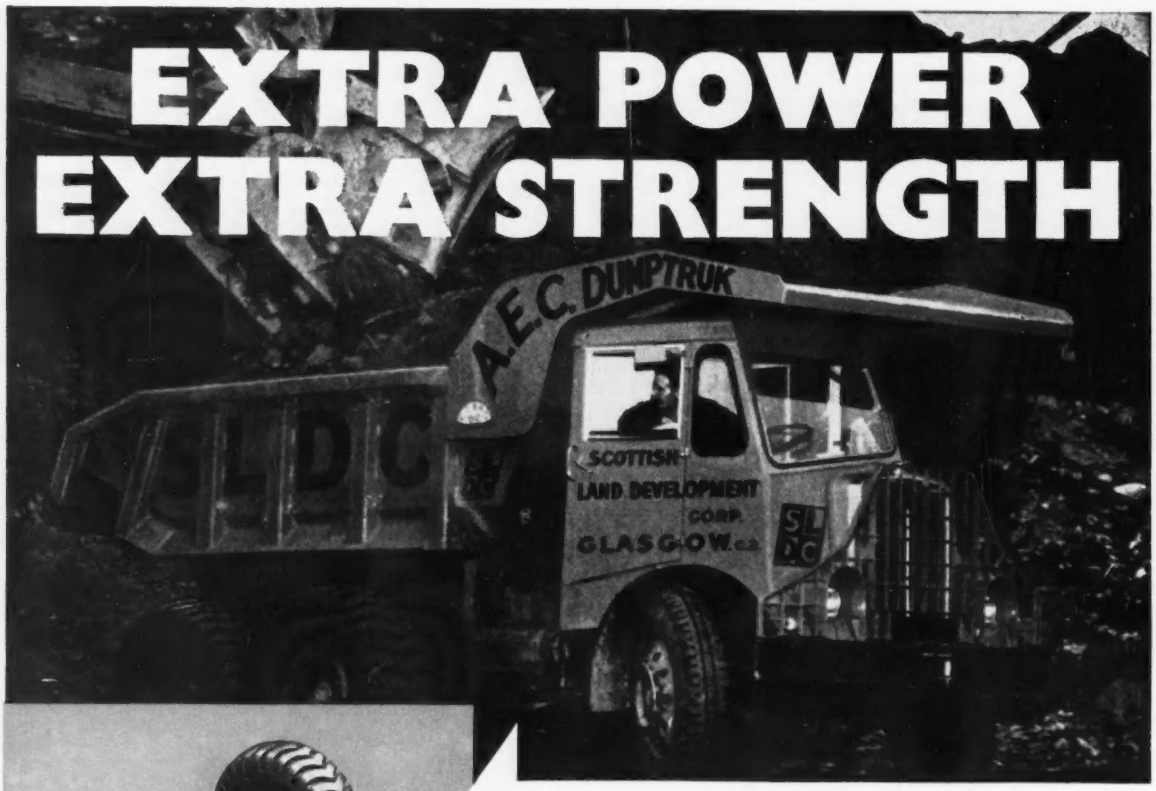

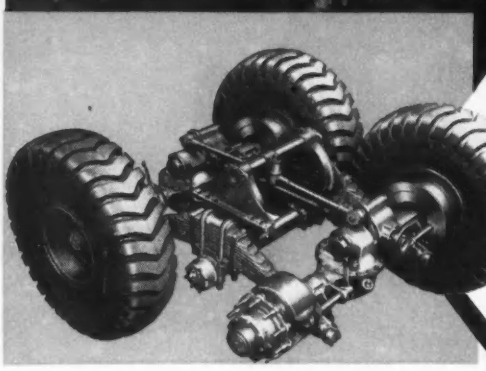

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The double-drive fully-articulated rear bogie is a unique feature of the A.E.C. "Dumptruk".

The tough, powerful, economical 10 cu. yd. A.E.C. "Dumptruk" does far more work in less time and gives a lower cost per yard moved than any other comparable dump truck on the market today. Powered by the field-proved 150 b.h.p. diesel engine with a high torque output driving through a specially developed constant mesh gearbox, the A.E.C. "Dumptruk" has the stamina to meet the most gruelling conditions. With double acting rams it reaches a 70° tip in 10 secs, with power return.

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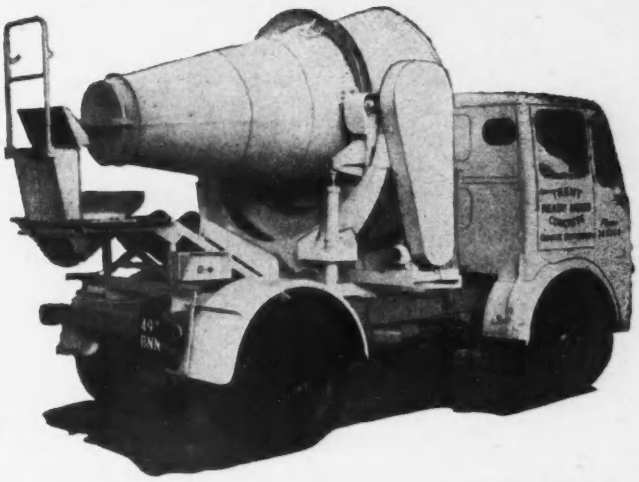
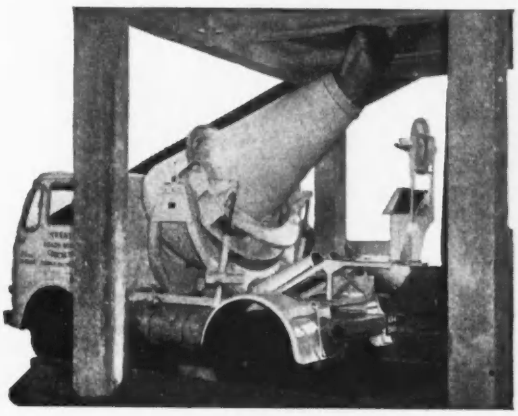


14 STAR FEATURES!



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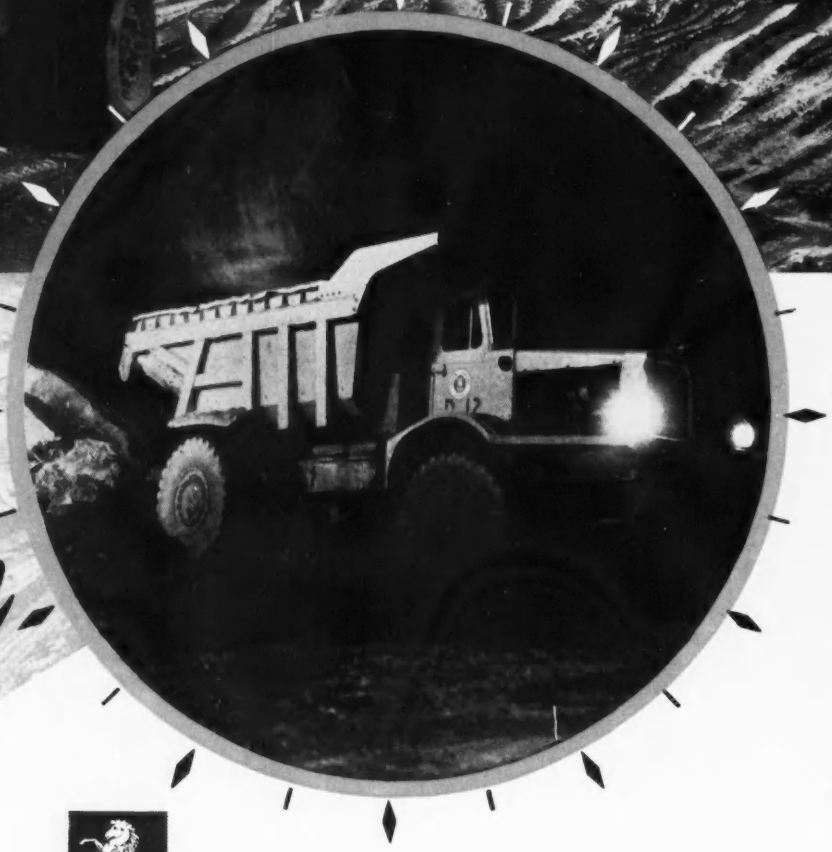

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These big 27-ton earthmovers, built for tough off-highway service, have everything that makes for top performance, including 400 B.H.P. Rolls-Royce turbo-charged diesel engine; 6 forward and 2 reverse speeds—top 30 m.p.h.—all operated by a single lever; big-target body of high-tensile wear-resisting steel; hydraulic, controlled tip; air-powered brakes and hydraulic power-assisted steering. For full particulars write for List No. 1822.

Photographs by courtesy of the National Coal Board, Opencast Executive.

Aveling-Barford SN 27 TON DUMPER

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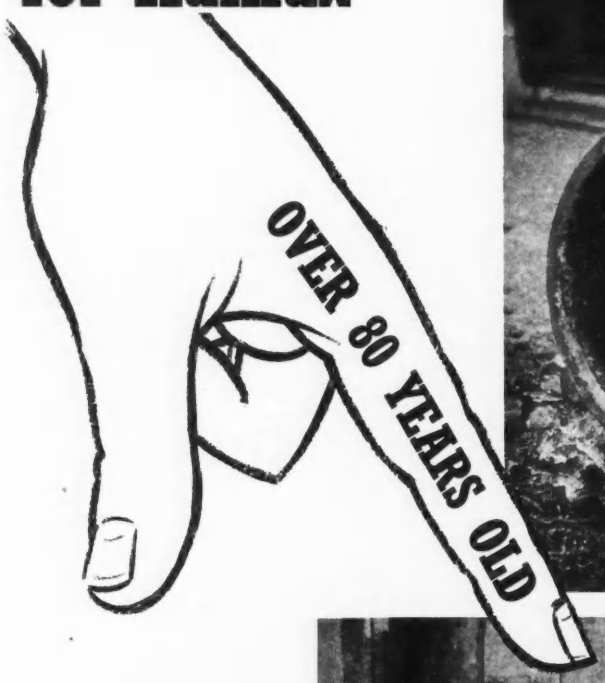
In the main — it's money for Halifax



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SAND & METAL SPUN PIPES for WATER MAINS

This Staveley 6 mile-14" main was laid at Halifax in the 70's.

Exposed for examination, it was found to be in such good condition that Halifax Corporation Water Engineer & Manager, Arnold L. Gray, B.Sc., A.M.I.C.E., M.I.W.E., decided to line it internally with cement mortar. The cleaning and lining was carried out by Mowlem-Centriline of Westminster and these Staveley pipes started a new lease of life —which in the main is money.

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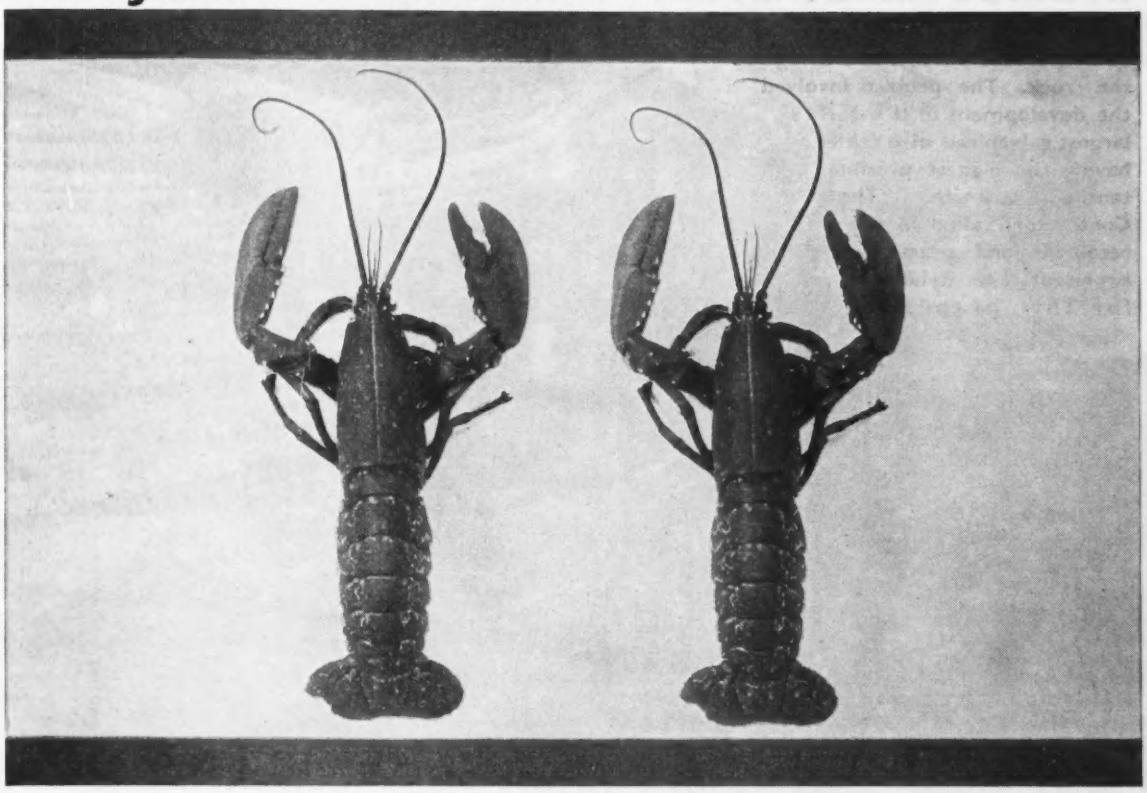
can **you** see the difference?



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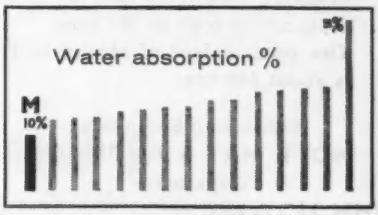
STATENS PROVNINGSANSTALT
STOCKHOLM

	Water absorption	Swelling
MASONITE	9·6	8·9
Mean value for 14 other makes	22·3	17·7
Maximum among these	50·7	23·3
Minimum ,, ,,	15·8	12·2



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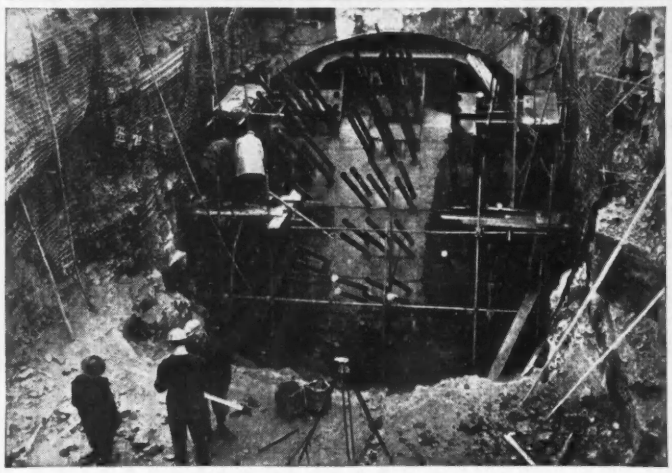
RYLANDS MAKE HISTORY

Giant Prestressing Strands are being used to anchor the Forth Road Bridge to the rock. The project involved the development of the world's largest galvanised wire cables having the highest possible tensile strength. The Contractors called in the resources and practical experience of Rylands for this purpose.

Forth Road Bridge Anchorages



Rylands were called on to provide a minimum breaking load of 350 tons for each unit and actual tests are as high as 381 tons.
The total weight of strand in these anchorages is about 630 tons.

Each anchorage is tunnelled 240 feet into the solid rock bed and filled with concrete. 278 steel tubes, 4½" diameter, are cast "in situ" and through these are threaded assemblages of four 1¼" diameter strands. Each assemblage is secured at one end by a massive zinc socket, the other ends being gripped for stressing by specially designed wedges.

Consulting Engineers:
MOTT, HAY & ANDERSON
Contractor:
JOHN HOWARD & COMPANY LTD.

RYLANDS
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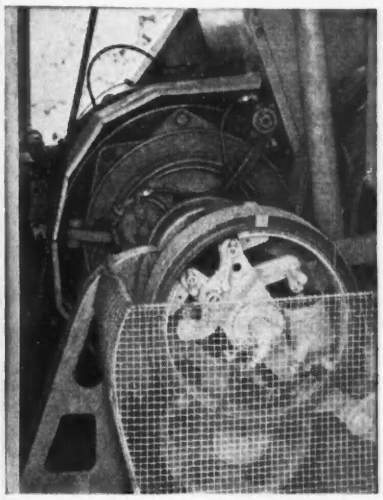
PRIESTMAN CHOOSE Ferodo First

for all brake and clutch linings on the Priestman Lion III



The main plate clutch, drum brake and clutch and power boom hoist brake and clutch shown in this picture are equipped with Ferodo linings. Track brakes and power load lowering/retract clutch on the Lion are also Ferodo-fitted.

The Priestman Lion III—first new, wholly British-designed excavator/crane of its size to be produced in the U.K. for fifteen years—handles loads of up to 20 tons. The power required needs careful, precise control—built-in dependability in every brake and clutch lining. So Priestman choose Ferodo friction materials for all linings . . . choose them for sheer strength, high friction, lasting reliability. That's why Ferodo are first for all mechanical handling applications. Follow Priestman's example—fit Ferodo.

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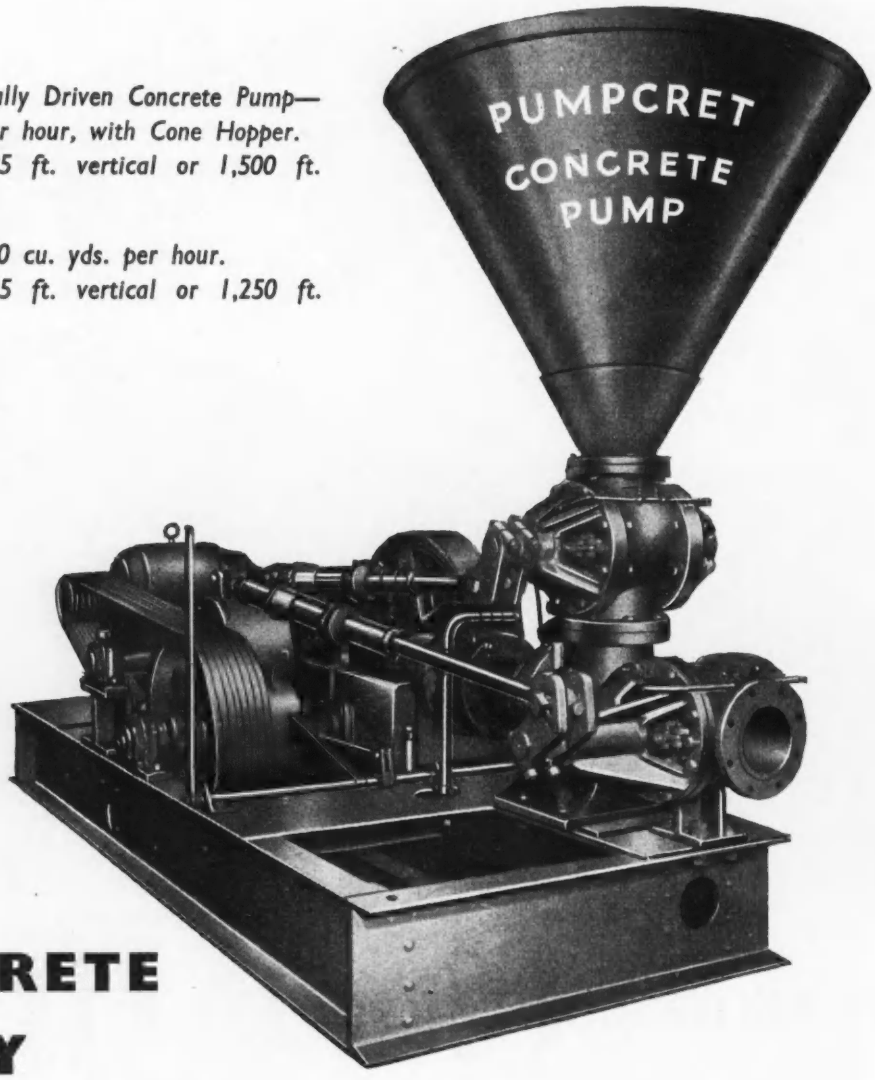

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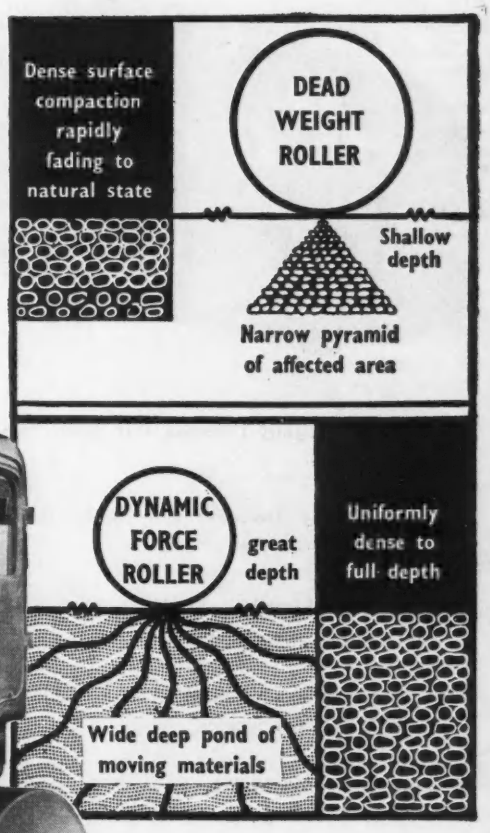

The Vibroll 42 RD above is the latest in the S & P range of vibrating rollers. Powered by an 18 B.H.P. twin cylinder, air-cooled diesel engine, it has rolls 42″ wide by 42″ diameter and power steering. The operator's cab is one of several optional extras.

Tons better because you get *deeper*, more uniform compaction of sand, gravel, ballast, asphalt, tarmacadam and dry mix concrete with a machine only a fraction of the weight of a dead-weight roller.

The diagrams above emphasise the basic advantage of the Vibroll dynamic force roller over the conventional dead-weight roller. Compaction carried out with a dead-weight roller decreases rapidly with depth; the vibrating roll of the Vibroll, however, creates a wide, deep volume of moving materials which ensures uniform compaction to great depth.

Other Vibroll dynamic force rollers range from the 11H trench model to the 72T trailer model and include those illustrated alongside.

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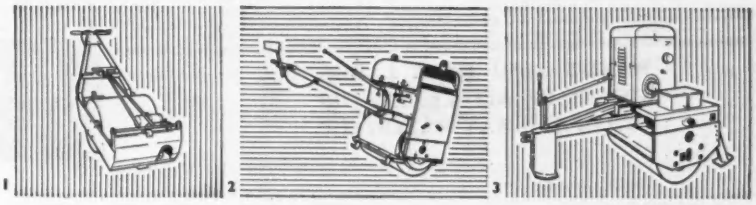
2. Power-propelled Hand Guided Roller 28W. 6¾ cwt. Roll 22½″ diameter by 28″ wide.
3. Trailer Roller 54T. 30 cwt. Roll 30″ diameter by 54″ wide.



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60 Tons Second-hand Coach Screws, 6⅜in. x 1⅞in., Standard Railway Pattern.

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(Continued from page 149)

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NCK304, 1650 Series, C/S Equipment, very good condition, £3,150.
19RB, ⅝, 9000 Series, F/S, £1,550.
19RB, ⅝, 12000 Series, Dragline, Skimmer and Backacter, overhauled, £2,200.
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38RB, 17000 Series, F/S and Dragline, £8,000.
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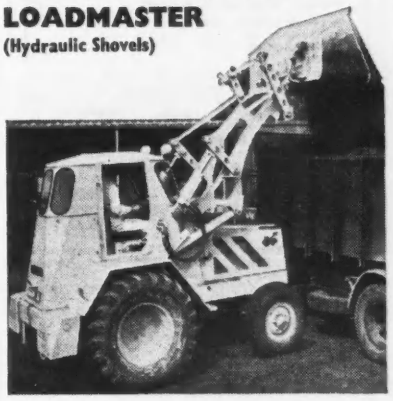

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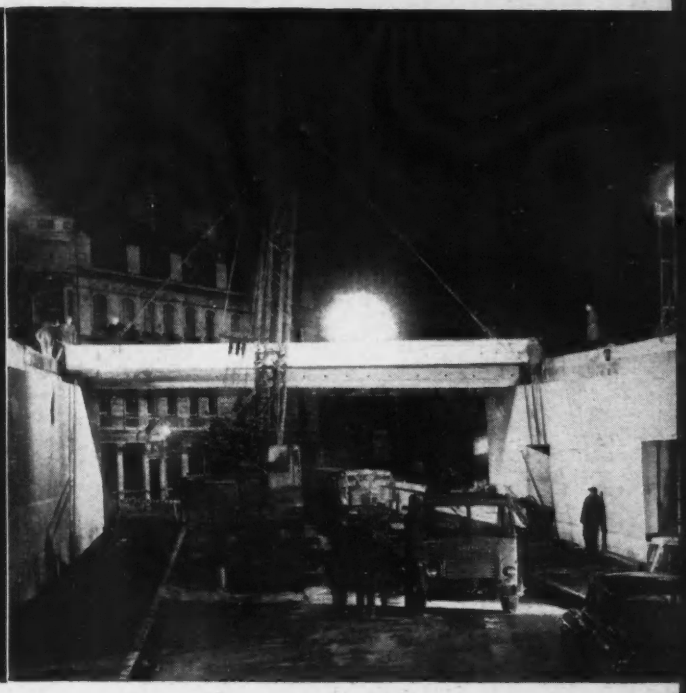

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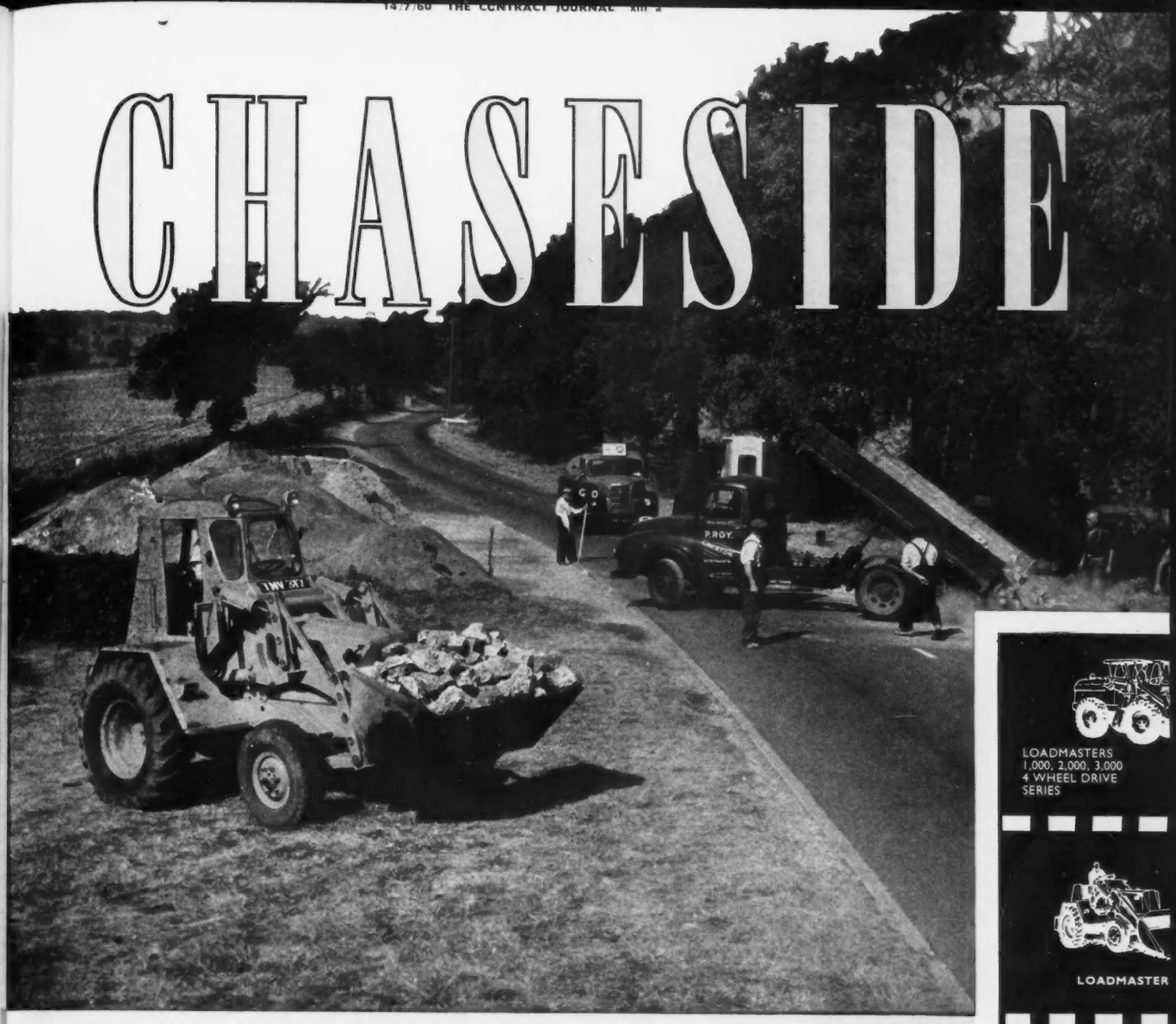

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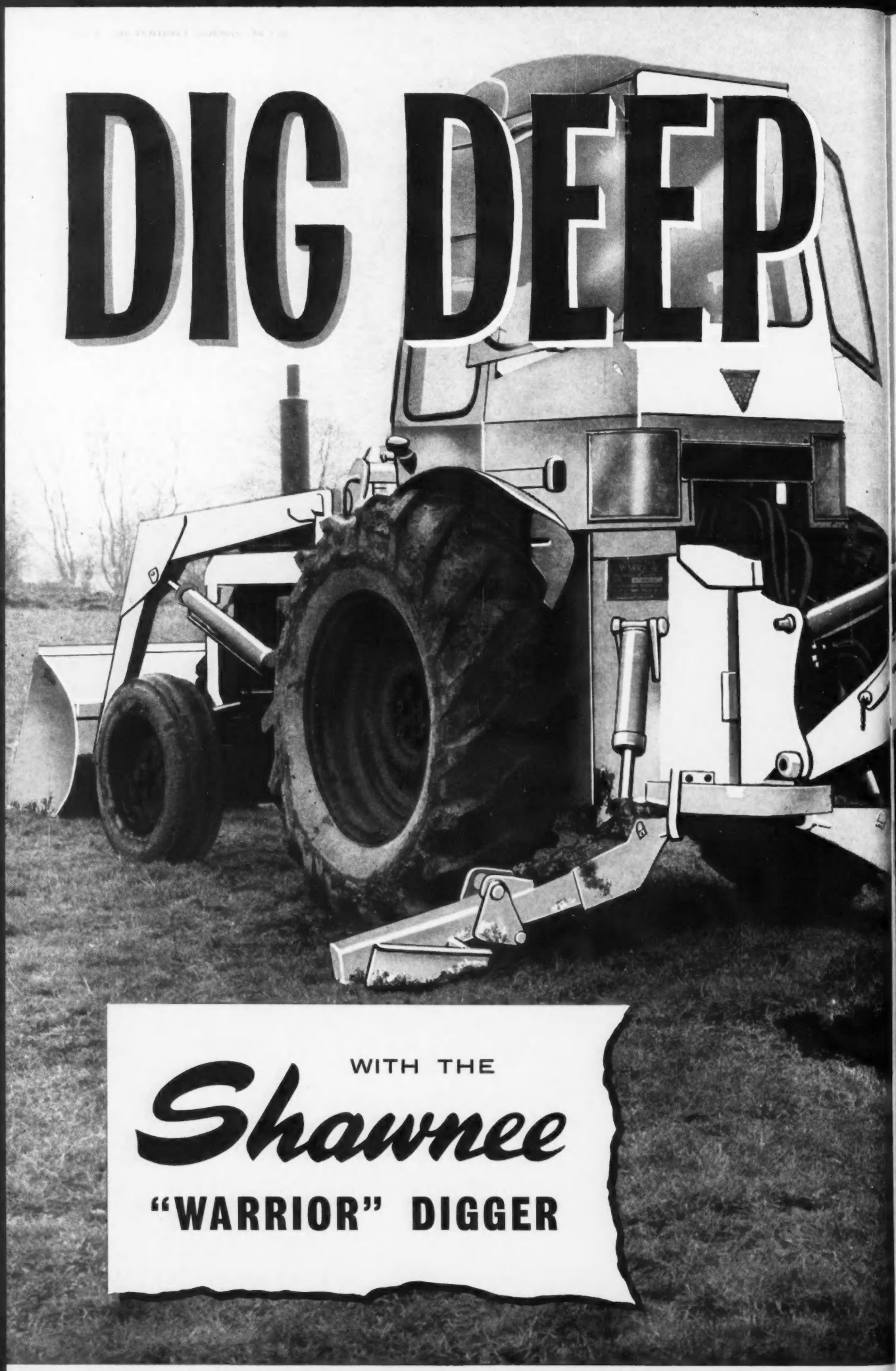

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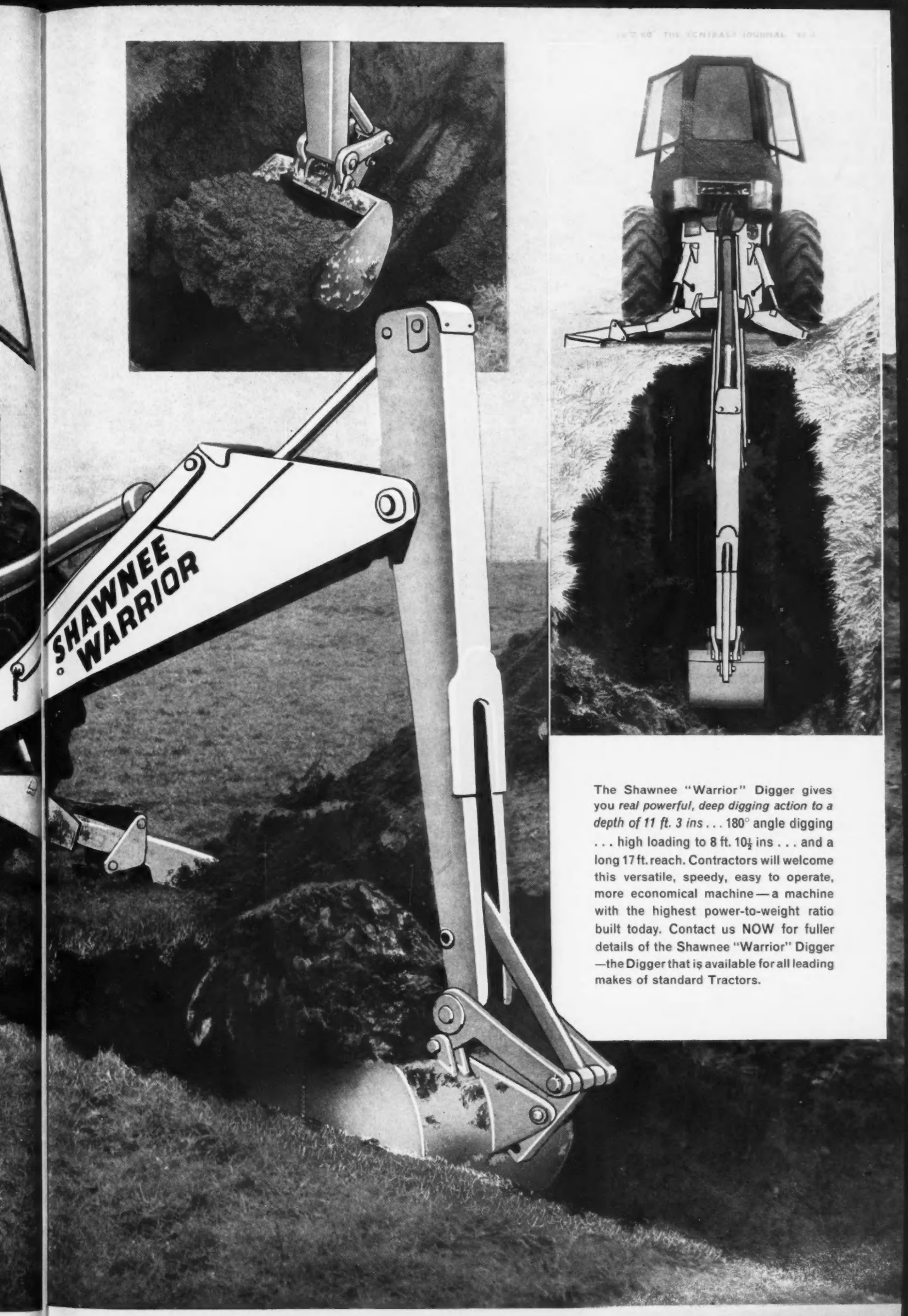

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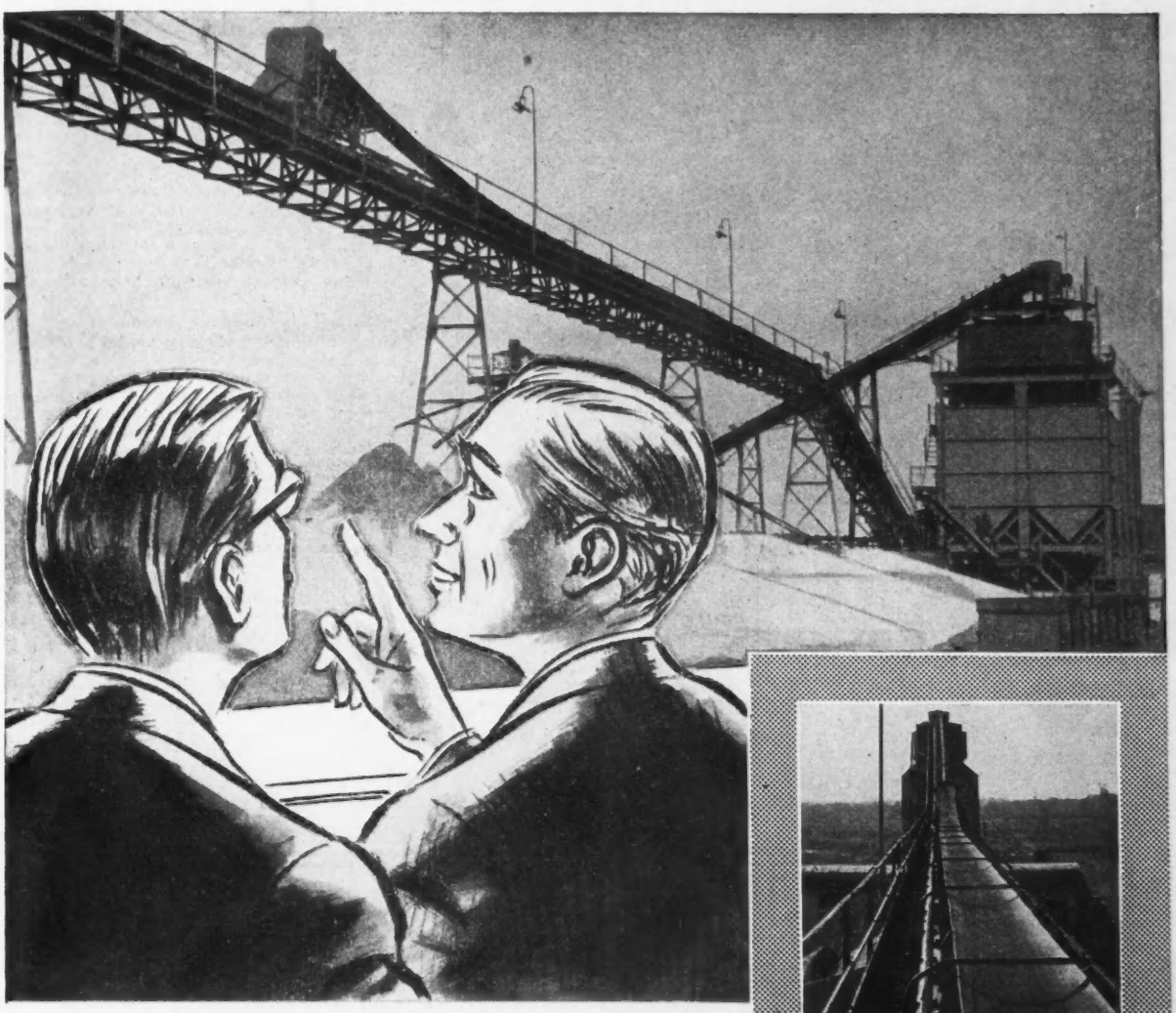

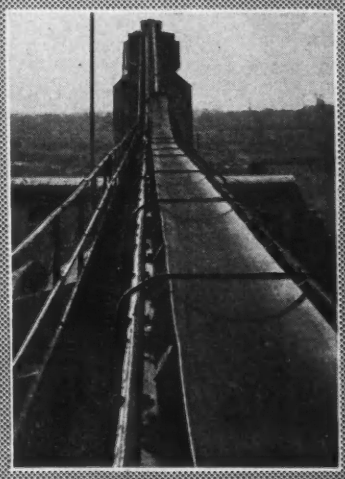

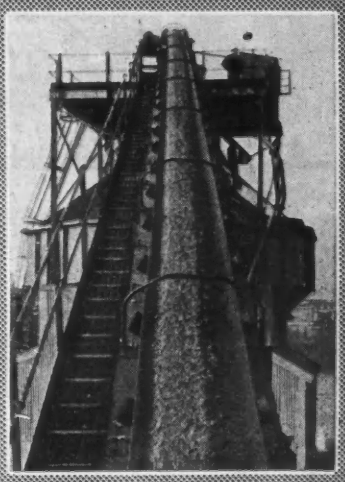

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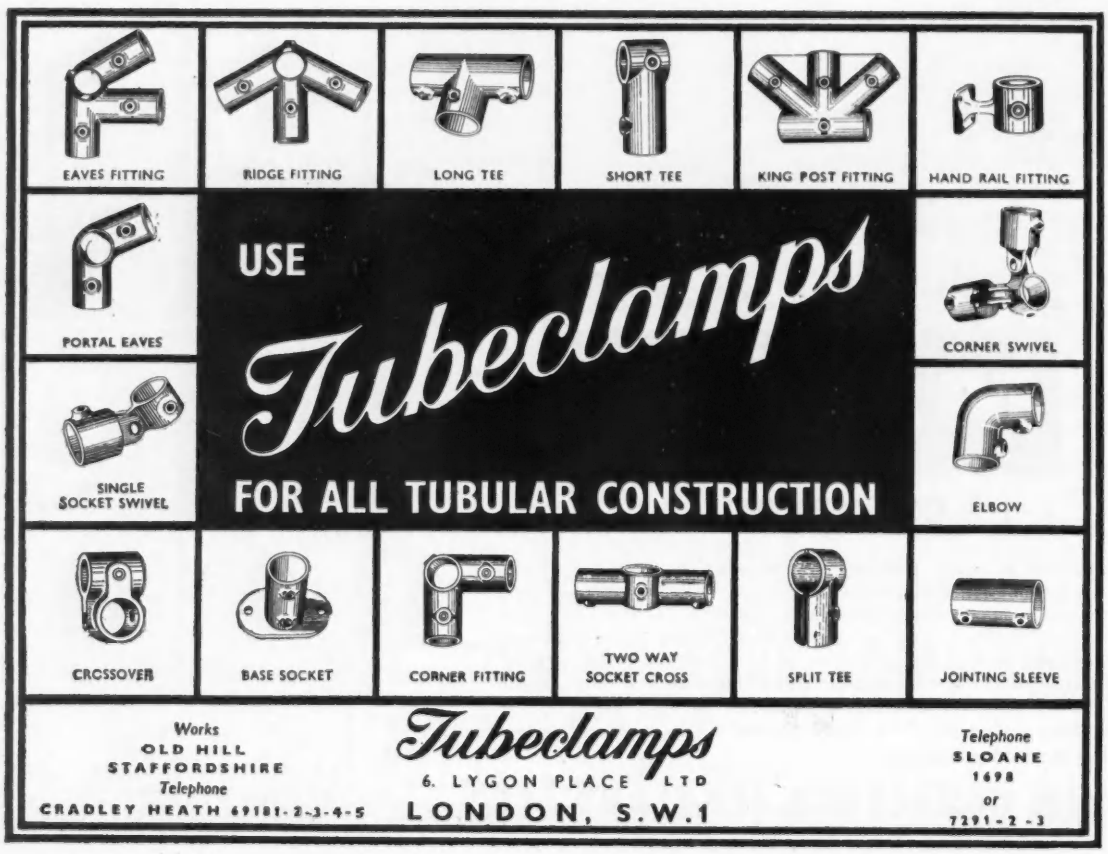

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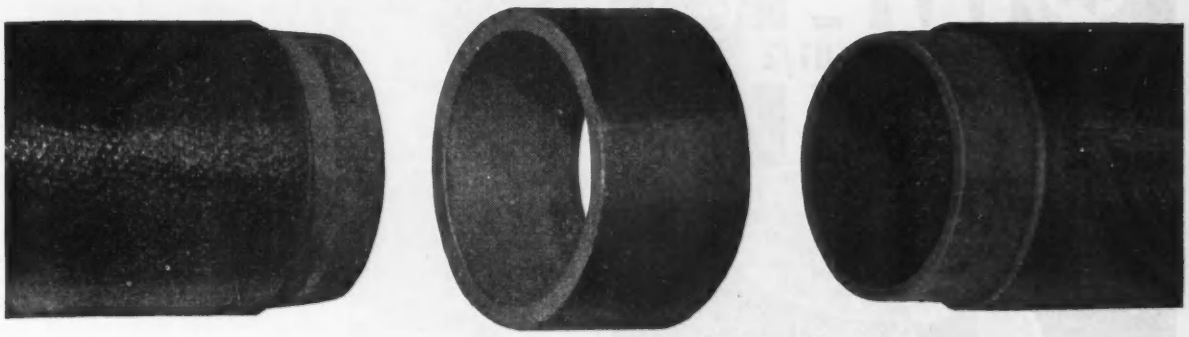

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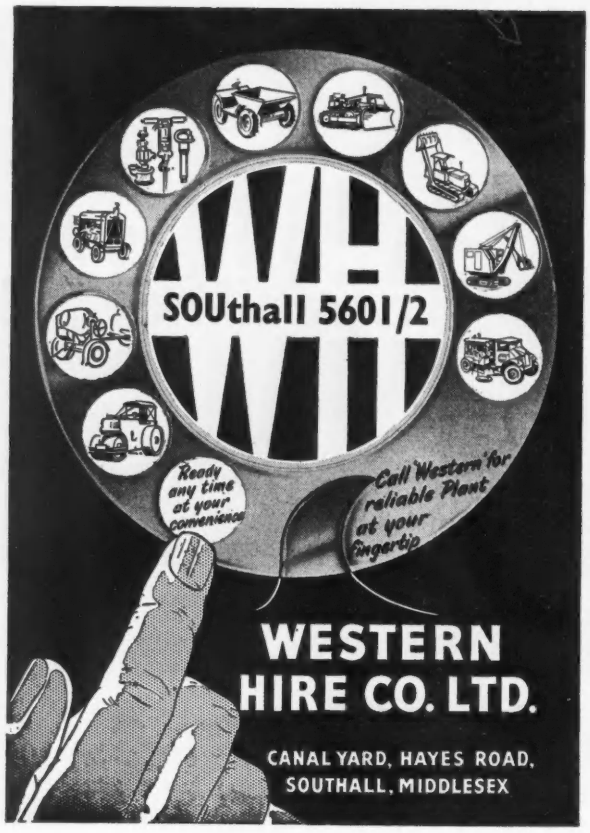

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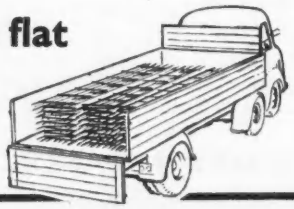

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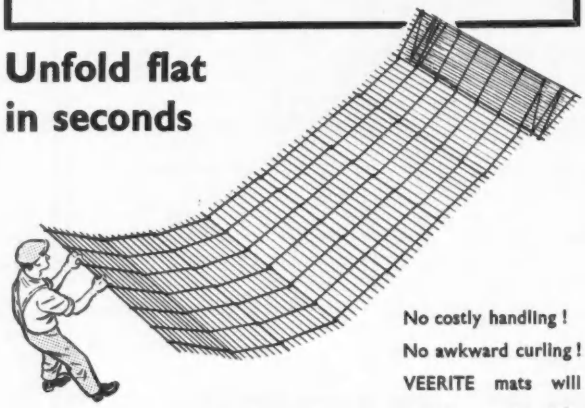

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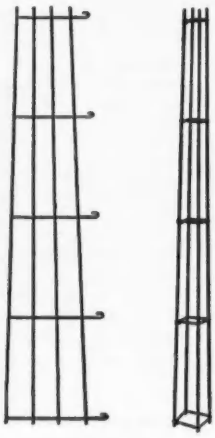

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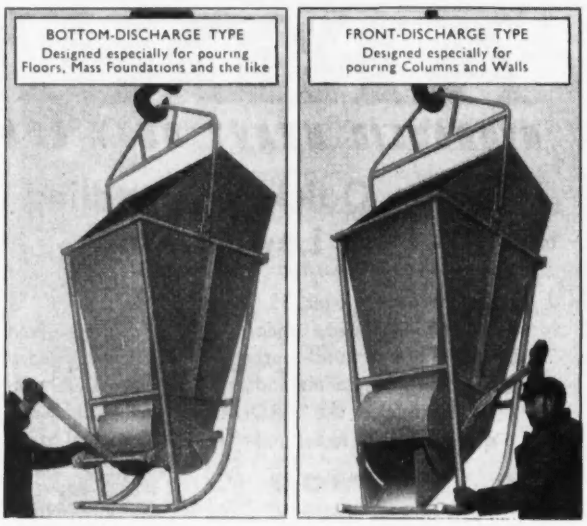

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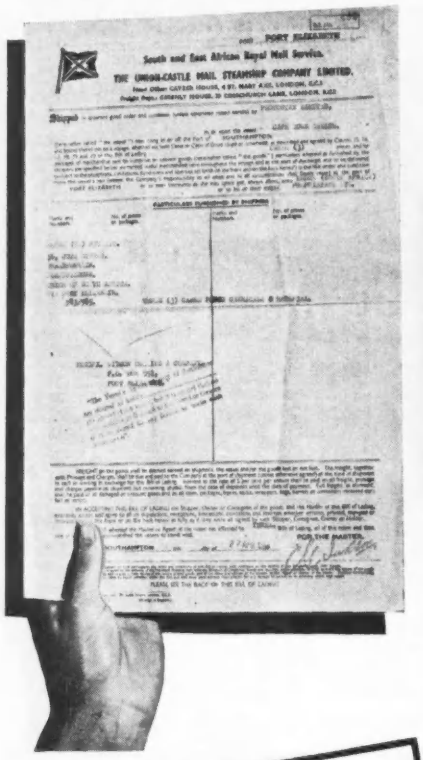

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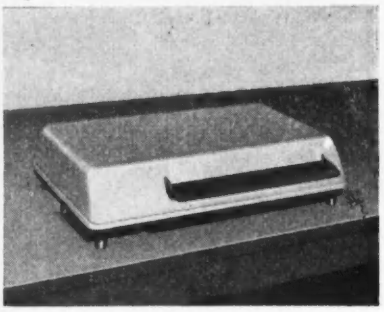

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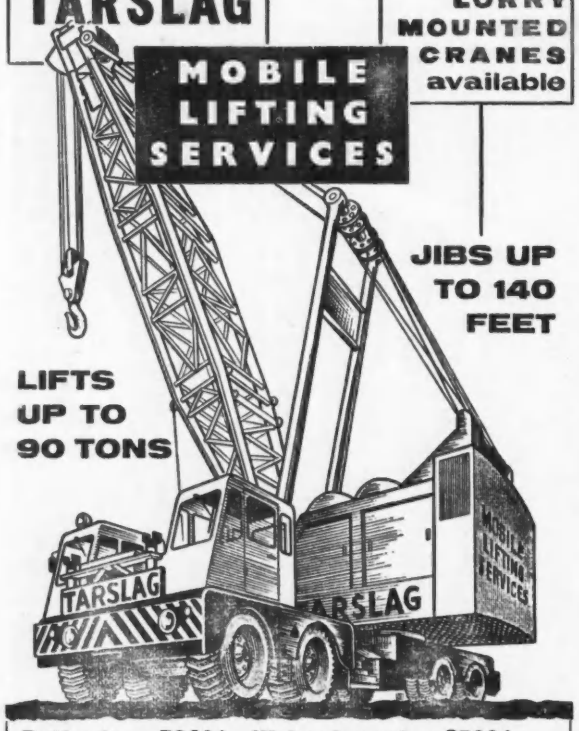

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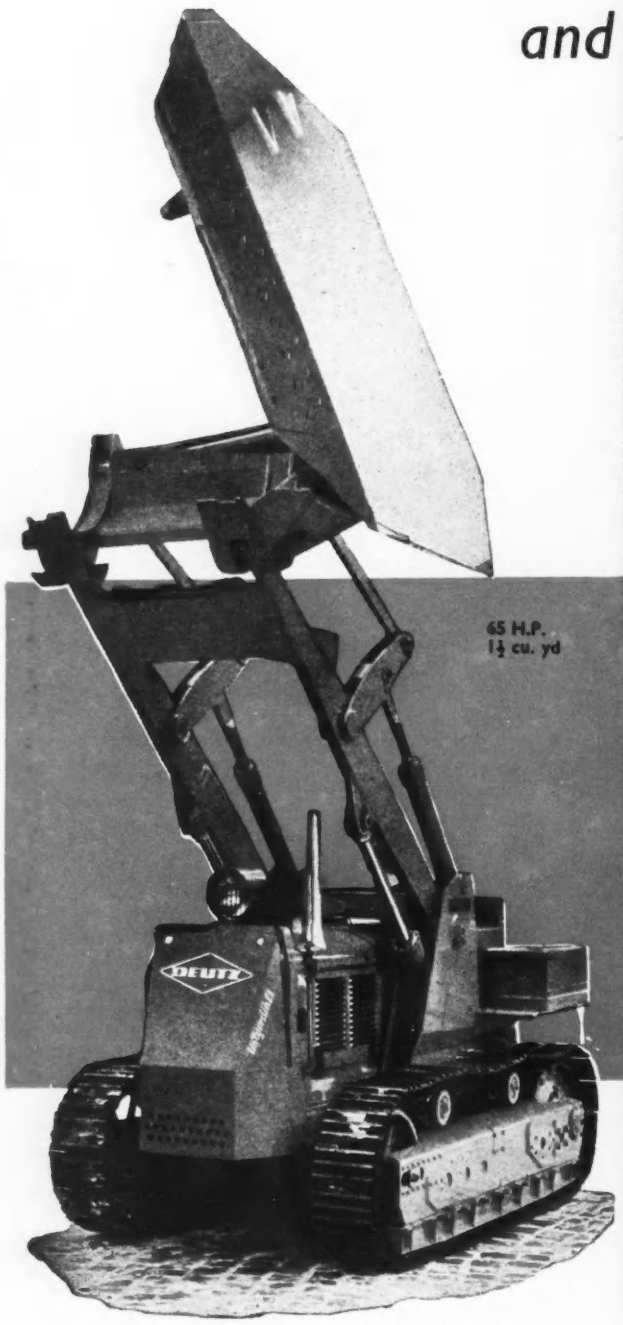

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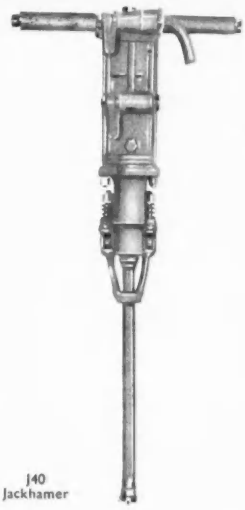

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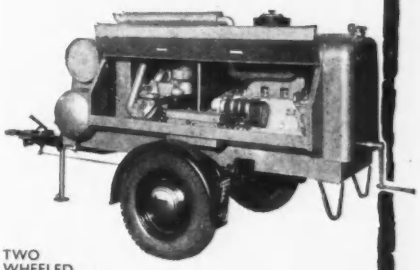

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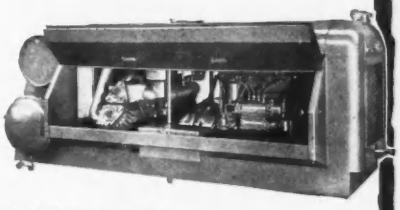

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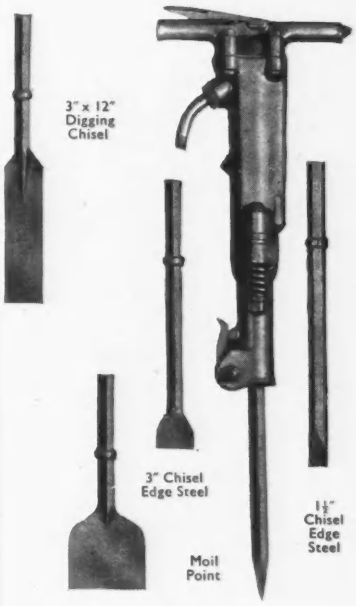

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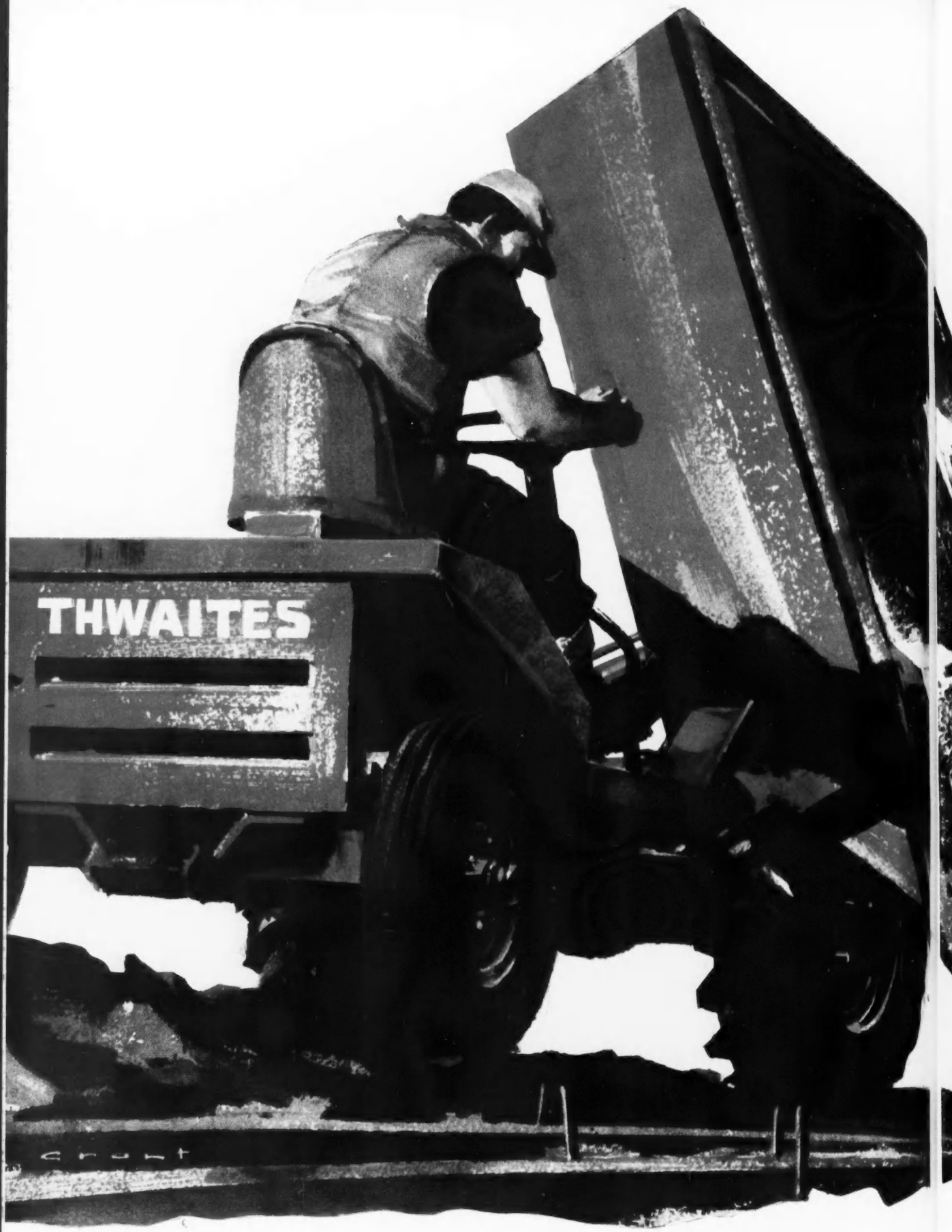

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Gearbox.	Constant mesh, 3 forward, 1 reverse, gears hardened nickel chrome steel with a ground finish to ensure smoothness in running.
Driving Axle.	4 star differential with half shafts of 100 ton steel. 12″ x 2½″ brakes.
Speeds:	1st gear: 4 m.p.h. 2nd gear: 7½ m.p.h. top gear: 12½ m.p.h. reverse: 4 m.p.h.
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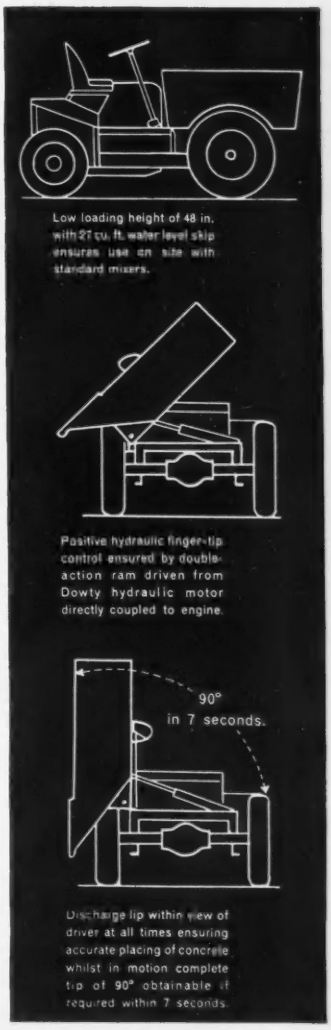

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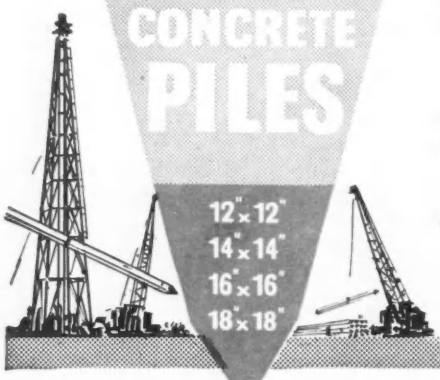

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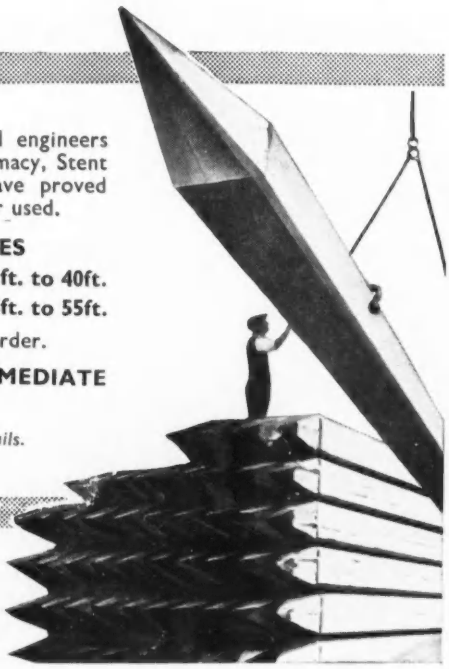

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BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
BENT-MARSHALL (LEYTON), LTD., 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast brick and concrete hardcore delivered all areas.
DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
FERRIS PITS, LTD., The Limes Garage, Fencepiece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore and ashes.
HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.
HUNNABLE, F. A., AND SON, LTD., Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, ¾in. to rejects; washed concreting sand and washed soft building sand. Classified sand for asphalt. Pits at Braintree, Bocking, Beasley End, Hedingham and Alphamstone.
LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—5 lines.) All grades washed materials, building sand, hardcore, ashes, bricks, granite.
PETERS AND BARHAM, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Asheldham, Chelmsford, St. James, Dagenham, Great Waltham, North Ockendon, Roxwell, West Thurrock.
READ, P. T., LTD., Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). Washed and graded aggregates. Local Office and pits: Tillingham 287.
WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

GLOUCESTERSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregate to B.S.S.
BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc. etc.
CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.
FLOYD AGAR AND CO., LTD., Sherston, Malmesbury, Wilts. (Tel.: Sherston 237.) Cotswold building stone, hardcore, etc. (Details under Wiltshire.)
GRIFFITHS, A., AND SONS, Churchdown, Gloucester. (Tel.: Churchdown 3135 and 2216.) Pit, quarry and dredger owners. All grades and types aggregate materials.

Rates for insertion in this GUIDE will be forwarded on application

CONTRACTORS' GUIDE TO AGGREGATES

GLOUCESTERSHIRE

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391—5 lines.) (See Wiltshire.)

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G., AND SONS, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 2271.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

PETERSFIELD ENGINEERING AND CONCRETE PRODUCTS. Buriton, nr. Petersfield, Hants. (Tel.: Petersfield 1079.) Concrete aggregates, washed and graded filter media.

PRIVETT, W. G., AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

WESSEX SAND AND GRAVEL CO., 126 Hillside Avenue, Southampton. (Tel. 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

HEREFORDSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) Granite and limestone aggregates, coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969, 4353, 59966.) (See Cambs.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at: Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggin, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 304.) Deliveries in Beds., Hunts. and South Cambs.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969, 4353, 59966.) (See Cambs.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

KENT

BRASTED SAND PITS, Brasted, Kent. (Tel. 586). London office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.

CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

DIAMOND TREAD CO. (1936), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners; tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051); and at Folkestone and Hayes. Pits at Lunsford, near Larkfield. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Station Road, Paddock Wood, Kent (Tel. 385). (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY. Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

CROFT GRANITE BRICK AND CONCRETE CO., LTD., West Bank, Widnes (Tel. 2656). "Kubitized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all construction purposes.

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots:
Office: 7 Picton Road, Liverpool, 15.
(Tel.: Sefton Park 7261.)
Manchester Depot:
Office: Cornbrook Road, Manchester, 15.
(Tel.: Trafford Park 3830.)

ROUND-O QUARRIES, LTD., Helsby Street, Warrington (Tel. 35451—4 lines). Building and concrete sand and shale.

TERN HILL SAND AND GRAVEL CO., LTD., Alminguton Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice-washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). Local Office and pits: Chorley 3923.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.

X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—VIGilant 2530.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.

BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregate, building and concrete sand to B.S.S., scientifically balanced ballast.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

CROFT GRANITE BRICK AND CONCRETE CO., LTD., Croft, near Leicester. (Tel.: Narborough 2261—4 lines.) "Kubitized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester (Tel. 56682). Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

GRAVEL HILL SAND QUARRIES, LTD., Prior Park, Ashby-de-la-Zouch. (Tel.: Ashby 79.) Works: Hartshorne, Derbys. Yellow screened plastering and building sand, all to B.S.S.

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)

LEICESTERSHIRE

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOUNTSORREL GRANITE CO., LTD., 21 New Walk, Leicester (Tel. 56682). Quarries at Mountsorrel, near Loughborough. ¾in. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). (See Northamptonshire.)

WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pits—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand.

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castledyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HURDISS, J. W., LTD., Victoria Street, Grimsby (Tel.: Grimsby 3657) and Caistor (Tel.: Caistor, Lincs., 281). Sand, gravel, hoggin, all grades. Concreting and roadmaking materials.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, 'phone Market Deeping 3132.

TRENTFORD GRAVELS, LTD., Head Office: Deansgrove Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

COX, H., AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 2215—3 lines.)

CROFT GRANITE BRICK AND CONCRETE CO., LTD., 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 0076/7 and 1246.) "Kubitized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMpstead 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLAdstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.

KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Concrete aggregates, hardcore, excavations, demolitions.

DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hth., Middx. (Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GRUNDON, S., 79 Harlington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at Ashford and Brentford. Pit at Bedfont, near Feltham. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064). 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready-mixed concrete. Pits: Edmonton Gravel Pit, Montagu Road, N.9 (Tel.: Shoreditch 9128/9), and Fairlop Airfield, Forest Road, Ilford (Tel.: Hainault 6111/2).

CONTRACTORS' GUIDE TO AGGREGATES

MIDDLESEX

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)
THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concreting, plastering and building sand.
WRAYSBURY SAND AND GRAVEL CO., LTD. Pits at Wraysbury. (Tel.: Wraysbury 164.) Gravel aggregates, concreting, plastering and building sand.

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Kington 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.
TERN HILL SAND AND GRAVEL CO., LTD., Alminton Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.
MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.
WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9). (See Gloucestershire.)

MONTGOMERYSHIRE

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pit: Feltwell.
JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.
SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Snetterton. Concrete aggregates, building sand.
THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33234.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.
BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)
BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., building sand, hardcore.
DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin. Immediate delivery throughout Northamptonshire.
FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.
MACKANESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.
NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.
NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.
PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

NORTHAMPTONSHIRE

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)
STORTON, F. E., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Fortiy Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-lal 27.) Crushed limestone and tarred macadam, all grades.
CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Yale 43.) Hard, broken limestone; dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)
ENSTON BROS., Llwyn Isaf Quarry, Clynnog Fawr, Caernarvon. (Tel.: Clynnon Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Llanrwst 38.)
PENMAENMAWR AND WELSH GRANITE CO., LTD. Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynnogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.
RUTHIN AND DENBIGH TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408—4 lines), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—6 lines).
TERN HILL SAND AND GRAVEL CO., LTD., Alminton Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.
GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.
NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.
NORTH NOTTS. GRAVEL CO., LTD., Bellmoor, Retford, Notts. (See Yorkshire.)
PRESTWICH, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel. 2204—6 lines.) Dry and coated Derbyshire limestone and slag for all purposes and to all specifications. "Haddon" foamed slag blocks.
SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel. Cogenhoe 464) for washed and graded aggregates to B.S.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.
CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)
GRUNDON, S., (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.
HAINES, H., (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Roadstone, Cotswold building and walling stone.
WRAYSBURY SAND AND GRAVEL CO., LTD., Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

RADNORSHIRE

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

RUTLAND

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.
PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)
POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDER, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.
BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.
HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (Tel.: Bayston Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always avail.
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Kingston. (Tel 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.
TERN HILL SAND AND GRAVEL CO., LTD., Alminton Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for dets.)
TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.
DANGERFIELD, F. J., AND CO., LTD., 216A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)
HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concreting, plastering and building sand.
ROADS RECONSTRUCTION (1934), LTD., Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.
WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc. kerbs and pavings.
PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel.: 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. (Tel. 1086/7.) Coated stone also available.
SESSIONS AND SONS, LTD., West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)
SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel. Swansea 53071.) Sand and gravel merchants, builders' merchants, Pennant Quarry owners. slag, hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)
CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality road-stone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

GRAVEL HILL SAND QUARRIES, LTD. Tel.: Ashby (Leics.) 79. (See Leicestershire for details.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

HILTON GRAVEL, LTD., Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Stretton, Burton-on-Trent (Tel.: Burton 6061).

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PRESTWICH, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel. 2204—6 lines.) Dry and coated Derbyshire limestone and slag for all purposes and to all specifications. "Haddon" foamed slag blocks.

RUGELEY GRAVEL CO., LTD., Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details, see Derbyshire.)

SHIRE OAK GRAVELS, LTD., Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggin.

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

WINDMILL SAND AND GRAVEL QUARRIES, LTD., Cannock Road, Wolverhampton. (Tel. 31108.) Concrete aggregates, plastering, building and asphalt sand. All to B.S.S.

SUFFOLK

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Chichester, Essex. (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggin.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DARBYS' SAND AND GRAVEL CO., LTD. Pit at Chippenham, Cambs. (See Cambs.)

DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. (Tel. 56973/4.) (See Cambs.)

FRECKENHAM GRAVEL CO., LTD. Pit at Freckenham. (See Cambs.)

HALL AND CO., LTD., West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concreting, plastering and building sand.

MACLAREN BROS. (KENNETT), LTD., Station Road, Kennett, Cambs. (Kentford 333/4.) (See Cambs.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)

WEBB, G., CAMBRIDGE. 35 Magrath Avenue, Cambridge. (Tel. 3969, 4353, 59966.) (See Cambs.)

SURREY

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Send and Reigate. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Kingston Road, Leatherhead, Surrey. (Tel. 3497.) (See Sussex.)

JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulldozing & bulk excavation. (Tel.: Slough 20361/2/3.)

SURREY

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARCO (AGGREGATES), LTD. Pit: Norlands Lane, Thorpe, near Egham. (Tel.: Chertsey 3401.) Producers and distributors of high-grade washed sand, shingle, ballast, etc.

MARCO (CROYDON), LTD., Hampton Road, West Croydon. (Tel.: THOrnton Heath 4236/7/8.) All building and road aggregates.

WELLS, A. L., AND SON, LTD., Builders' Merchants, Garlands Road, Leatherhead. (Tel. 3018/9.) Sand aggregates, hardcore, ashes, cement. Clinker block manufacturers.

WINTON, WM. R., LTD., Send, Woking. (Tel.: Ripley 2454/5.) All grades sand, shingle, ballast, hoggin and ashes. Clinker block manufacturers.

SUSSEX

AVANN, F., Cavendish Avenue, Eastbourne. (Tel. 4969/70.) Washed and graded ballast, sand, bricks, breeze and concrete blocks, hardcore, clinker, tarmac, etc., supplied.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., 16 Chapel Road, Worthing. (Tel.: Worthing 7840.) Other main depots at Bexhill, Bognor, Crowborough, East Grinstead, Eastbourne, Horsham, Hove and Seaford. Pits at Washington, Crumbles, near Eastbourne, Chichester, Rye Harbour, Midhurst, Shoreham and Portslade. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., West Station Goods Yard, Bexhill (Tel. 61); Cavendish Place, Eastbourne (Tel. 3800); Dominion Road, Worthing (Tel. 8822); Whitbread Lane, Northiam (Tel. 2211); Station Goods Yard, Haywards Heath (Tel. 1750); Crawley Road, Horsham (Tel. 3366); The Hornet, Chichester (Tel. 4181). All grades aggregates, hardcore, clinker, ashes, etc.

WRIGHT, C., AND SONS, (B'TON), LTD., 19 Bristol Gardens, Brighton, 7. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

WARWICKSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output reliable deliveries.

BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregates, building and concrete sand to B.S.S., scientifically balanced ballast.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

HALL AND CO., LTD., 188 Lichfield Road, Four Oaks, Sutton Coldfield. (Tel.: Four Oaks 356.) Gravel aggregates, concreting, plastering, building sand.

HARRABIN, W. H., AND SONS, LTD., Navigation Bridge, Stoney Stanton Road, Coventry. (Tel. 89439.) All materials, granites, hardcore, kerbs and flags, gravels, sands, ashes, setts, etc.

JUDKINS, LTD., Granite Quarries, Tuttle Hill, Nuneaton. (Tel.: Nuneaton 3411—10 lines.) All sizes washed granite aggregate, tarred and bituminous macadam. Slab mix a speciality.

SHIRE OAK GRAVELS, LTD. (See Staffordshire.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire and Northamptonshire.)

WESTMORLAND

BROOMBYS, LTD., Sandside, Milnthorpe, Westmorland. (Tel.: Milnthorpe 3251/2.) All grades washed crushed gravel sand, limestone, granite chippings, pitching, tarmacadam, rockery stone, etc.

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details, see Cumberland.)

WILTSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

WILTSHIRE

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel. 2264.) (See Hampshire.)

COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel. 4717/4874.) (See Glos.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FLOYD AGAR AND CO., LTD., Sherston, Malmesbury, Wilts. (Tel.: Sherston 237.) Finest quality Cotswold building stone and walling stone for sale, also hardcore and quarry waste for road making. Delivered or ex quarry at keen prices.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett. (Tel. 391—5 lines.) Pits at Lacock (Tel. 304), Wilts.; Fairford and Poulton, Glos. (Tel.: Fairford 365/6.) Washed crushed and graded aggregates. Washed and screened building sand. Graded clinker media.

WORCESTERSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DUNNING AND SON, LTD. (See Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) (See Herefordshire.)

YORKSHIRE

BRAITHWAITE, A., AND CO., LTD., Conyngham Hall, Knaresborough. (Tel.: Knaresborough 2286.) Quarries at Knaresborough (Tel.: Knares. 2286) and Catterick (Tel.: Old Catt. 157). Washed, crushed and graded concrete aggregates to B.S. Specification. Output 2,000 tons daily. Ready-mixed mortar and concrete also available.

DENNIFF, ALAN S., LTD., Kiveton Park, nr. Sheffield. (Tel.: Kiveton 446/7/8.) Truck-mixed and pre-mixed concrete, washed and crushed gravel, concreting sand, bldg. sand, crushed and graded stone.

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel could be collected ex quarry or delivered.

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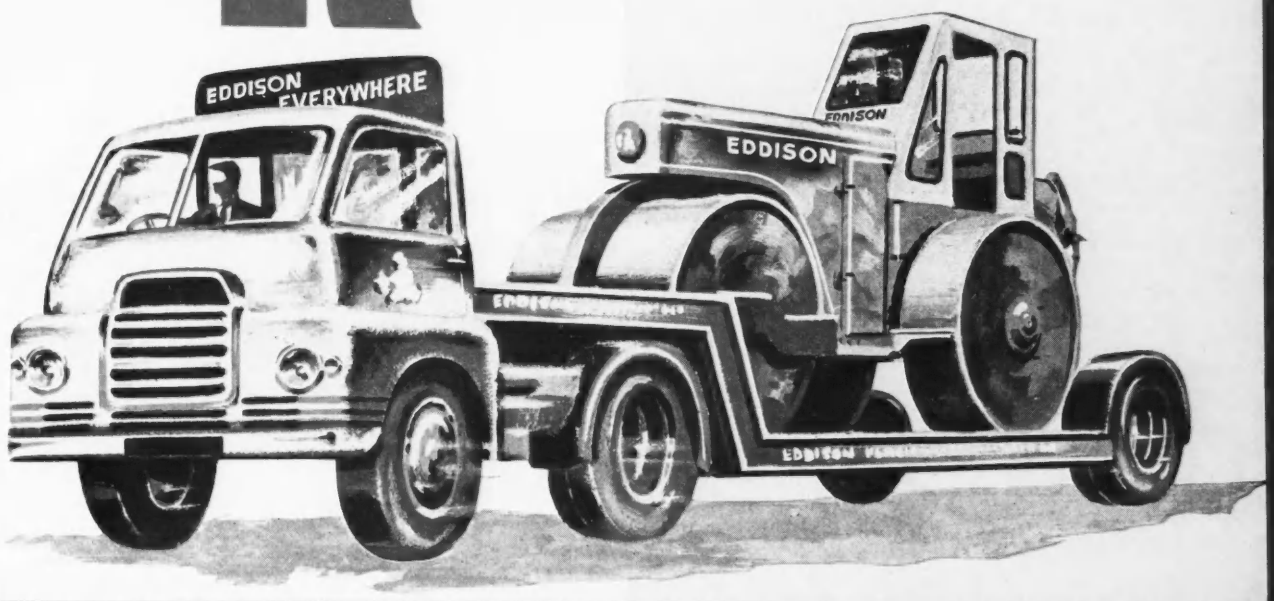

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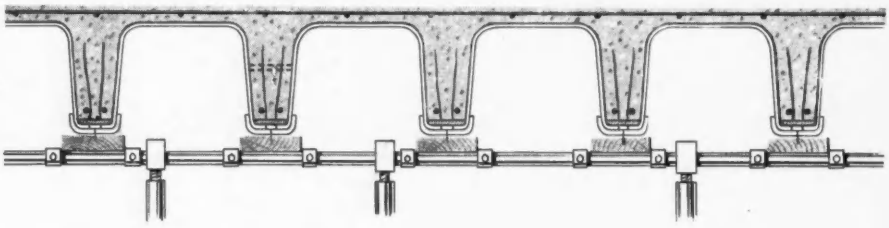
BRC

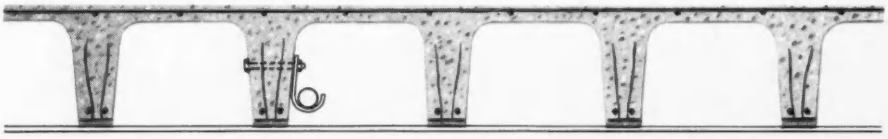
hollow steel mould construction

Section of floor with H.S.M. in position



. . . is particularly suitable where the live loads are light, and long spans with few intermediate beams are desirable.

Section of floor with moulds removed and ceiling fitted



Hollow steel mould being placed in position

The BRC Booklet "Hollow Steel Mould Construction" is available on request.

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